















**KONRAD
TOOLS**

INDEXABLE INSERTS







STEEL
PAGE 1 - 74

C		CC	0602	09T3	1204	2509			PAGE 1 - 9
		CN	0903	1204	1606	1906	2507	2509	PAGE 10 - 19
D		DC	0702	11T3					PAGE 20 - 25
		DN	1104	1504	1506				PAGE 26 - 32
S		SC	09T3	1204	2509				PAGE 33 - 37
		SN	0903	1204	1506	1906	2507	2509	PAGE 38 - 44
T		TC	06T1	0902	1102	16T3			PAGE 45 - 50
		TN	1604	2204					PAGE 51 - 53
		TP	1103	1603					PAGE 54 - 55
V		VB	1604						PAGE 56
		VC	0702	1103	1303	1604	2205		PAGE 57 - 64
		VN	1604						PAGE 65 - 66
W		WC	0201	0302	0402	06T3	0804		PAGE 67 - 71
		WN	0604	0804					PAGE 72 - 74







STAINLESS STEEL
PAGE 76 - 126

C		CC	0602	09T3	1204				Page 76 - 81
		CN	0903	1204	1606	1906			Page 82 - 87
D		DC	0702	11T3					Page 88 - 92
		DN	1104	1504	1506				Page 93 - 97
S		SC	09T3	1204					Page 98 - 99
		SN	0903	1204	1506	1906			Page 100 - 104
T		TC	0902	1102	16T3				Page 105 - 107
		TN	1604	2204					Page 108 - 110
V		VB	1604						Page 111
		VC	0501	0702	1103	1303	1604		Page 112 - 118
		VN	1604						Page 119
W		WC	0201	0402	06T3				Page 120 - 122
		WN	0604	0804					Page 123 - 126







CAST IRON
PAGE 128 - 169

C		CC	0602	09T3	1204	2509			Page 128 - 132
		CN	0903	1204	1606	1906	2509		Page 133 - 138
D		DC	0702	11T3					Page 139 - 141
		DN	1104	1504	1506				Page 142 - 144
S		SC	09T3	1204	2509				Page 145 - 147
		SN	1204	1906	2507	2509			Page 148 - 151
T		TC	06T1	0902	1102	16T3			Page 152 - 155
		TN	1604	2204					Page 156 - 157
V		VC	0702	1103	1303	1604	2205		Page 158 - 164
		VN							
W		WC	0201	0402	06T3	0804			Page 165 - 168
		WN	0804						Page 169

NON-FERROUS METAL
PAGE 170 - 203

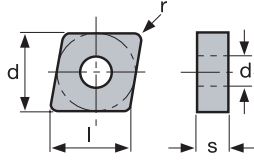
C		CC	0602	09T3	1204			Page 170 - 174
		CN	1204	1606	1906			Page 175 - 177
D		DC	0702	11T3				Page 178 - 181
		DN	1104	1506				Page 182 - 183
S		SC	09T3	1204				Page 184 - 185
		SN						
T		TC	06T1	0902	1102	16T3		Page 186 - 189
		TN						
V		VC	0501	0702	1103	1303	1604 2205	Page 190 - 197
		VN	1604					Page 198
W		WC	0201	0402	06T3	0804		Page 199 - 202
		WN	0804					Page 203

EXOTIC ALLOY
PAGE 204 - 237

C		CC	0602	09T3	1204			Page 204 - 208
		CN	1204	1906				Page 209 - 211
D		DC	0702	11T3				Page 212 - 216
		DN	1504	1506				Page 217 - 219
S		SC	09T3	1204				Page 220 - 221
		SN	1204					Page 222
T		TC	1102	16T3				Page 223 - 224
		TN	1604					Page 225
V		VC	0501	0702	1103	1303	1604	Page 226 - 231
		VN	1604					Page 232
W		WC	0201	0402	06T3			Page 233 - 235
		WN	0604	0804				Page 236 - 237

CARBIDE	CC	80°	STEEL
	0602	DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL													
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●			○	○					
	NON-FERROUS METAL	N												
	EXOTIC ALLOY	S	○		○				○	○				
	HARDENED STEEL	H												

Machining Types	
○	●
○	○
○	○

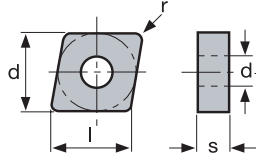
○ CONTINUOUS CUTTING
 ○ GENERAL CUTTING
 ○ INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →											Steel Groupe		
			Vc (m/min) CUTTING SPEED →											F (mm/rev) FEED RATE	AP (mm) DEPTH OF CUT	
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
M 	CCMT 060202-M				●										0,16 - 0,44	0,5 - 5,0
	CCMT 060204-M				●										0,16 - 0,44	0,5 - 5,0
	CCMT 060208-M				●										0,16 - 0,44	0,5 - 5,0
E-M1 	CCGT 060204 EL-M1														0,2 - 0,45	1,0 - 3,2
	CCGT 060204 ER-M1														0,2 - 0,45	1,0 - 3,2
	CCGT 060208 EL-M1														0,2 - 0,45	1,0 - 3,2
	CCGT 060208 ER-M1														0,2 - 0,45	1,0 - 3,2
M10 	CCMT 060204-M10														0,08 - 0,20	0,4 - 2,0
	CCMT 060208-M10														0,12 - 0,25	0,5 - 2,0
MF7 	CCMT 060202-MF7														0,05 - 0,12	0,30 - 2
	CCMT 060204-MF7				●										0,08 - 0,20	0,40 - 2

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CC	80°	STEEL
	0602	DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

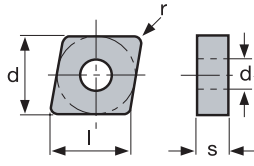
MACHINING MATERIAL	STEEL												
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●	○	○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○	○	○	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	○	○	○	○	○	○	○	○	○	○	○
	HARDENED STEEL	H	○	○	○	○	○	○	○	○	○	○	○

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groupe			
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170			
	CCGT 0602005-MF17		●			●									0,02 - 0,06	0,05 - 1,5
	CCGT 060201-MF17		●			●									0,02 - 0,06	0,5 - 1,5
	CCGT 060202-MF17		●			●									0,05 - 0,12	0,5 - 2,0
	CCGT 060204-MF17		●			●									0,08 - 0,25	0,6 - 3,0
	CCGT 060204-MF19		●			●									0,08 - 0,25	0,6 - 3,0
	CCMT 060202-F				●			●							0,05 - 0,2	0,25 - 2,0
	CCMT 060204-F				●			●							0,05 - 0,2	0,25 - 2,0
	CCMT 060208-F				●			●							0,05 - 0,2	0,25 - 2,0
	CCMT 060202-F10			●			●								0,04 - 0,12	0,1 - 1,0
	CCMT 060204-F10						●								0,05 - 0,16	0,1 - 1,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CC	80°	STEEL
	0602	DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS




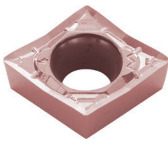
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL														
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	○	○	○	○	○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○	○	○	○	○	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	○	○	○	○	○	○	○	○	○	○	○	○	○
	HARDENED STEEL	H	○	○	○	○	○	○	○	○	○	○	○	○	○

Machining Types	
○	●
○	○
○	○

CONTINUOUS CUTTING
 GENERAL CUTTING
 INTERRUPTED CUTTING

GEOMETRY	GRADE → DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe		
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
F12 	CCGT 0602005-F12	●			●										0,02 - 0,06	0,1 - 1,5
	CCGT 060201-F12	●			●										0,02 - 0,06	0,1 - 1,5
	CCGT 060202-F12	●			●										0,05 - 0,12	0,2 - 2,0
	CCGT 060204-F12	●			●										0,08 - 0,25	0,2 - 2,5
W1 	CCGT 060202-W1	●													0,10 - 0,30	0,3 - 3,0
	CCGT 060204-W1	●													0,12 - 0,40	0,5 - 4,0
	CCGT 060208-W1	●													0,15 - 0,50	0,7 - 4,0

CARBIDE	CC	80°	STEEL
	09T3	DIAMOND	
		7° POSITIVE	


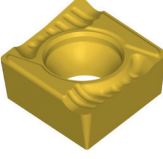
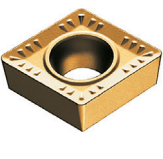
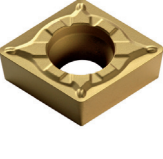
9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS

Tolerance Classes	CLASS	m	d	s
	<i>E</i>	± 0,025	± 0,025	± 0,025
	<i>G</i>	± 0,025	± 0,025	± 0,13
	<i>H</i>	± 0,013	± 0,013	± 0,025
	<i>M</i>	± 0,08	± 0,05	± 0,13
	<i>U</i>	± 0,13	± 0,08	± 0,13

SECONDARY USE	PRIMARY USE
○	●
○	○
○	○

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	HARDENED STEEL	H	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Machining Types	Secondary Use	Primary Use	Application
○	○	●	CONTINUOUS CUTTING
○	○	●	GENERAL CUTTING
○	○	●	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Steel Groupe		
		Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
GRADE →		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
M 	CCMT 09T304-M			●				●						0,16 - 0,44	0,5 - 5,0
	CCMT 09T308-M			●				●						0,16 - 0,44	0,5 - 5,0
E-M1 	CCGT 09T304 EL-M1							●				●		0,2 - 0,45	1,0 - 3,2
	CCGT 09T304 ER-M1							●				●		0,2 - 0,45	1,0 - 3,2
	CCGT 09T308 EL-M1							●				●		0,2 - 0,45	1,0 - 3,2
	CCGT 09T308 ER-M1							●				●		0,2 - 0,45	1,0 - 3,2
M10 	CCMT 09T304-M10					●						●		0,08 - 0,25	0,4 - 3,0
	CCMT 09T308-M10					●						●		0,12 - 0,32	0,5 - 3,0
MF7 	CCMT 09T302-MF7					●								0,05 - 0,12	0,3 - 2,0
	CCMT 09T304-MF7					●								0,08 - 0,25	0,4 - 3,0
	CCMT 09T308-MF7					●								0,12 - 0,32	0,5 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CC	80°	STEEL
	09T3	DIAMOND	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS

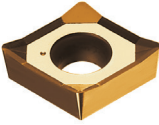
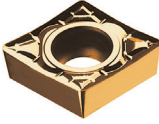


Tolerance Classes	CLASS	m	d	s
	<i>E</i>	± 0,025	± 0,025	± 0,025
	<i>G</i>	± 0,025	± 0,025	± 0,13
	<i>H</i>	± 0,013	± 0,013	± 0,025
	<i>M</i>	± 0,08	± 0,05	± 0,13
	<i>U</i>	± 0,13	± 0,08	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	HARDENED STEEL	H	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Machining Types	
○	●
○	●
○	●

CONTINUOUS CUTTING
 GENERAL CUTTING
 INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Steel Groupe			
		Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
		GRADE →														
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3				
		140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170				
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
MF17	CCGT 09T301-MF17	●			●									0,02 - 0,06	0,5 - 1,5	
	CCGT 09T302-MF17	●			●									0,05 - 0,12	0,5 - 2,0	
	CCGT 09T304-MF17	●			●									0,08 - 0,25	0,6 - 4,0	
	CCGT 09T308-MF17	●			●									0,10 - 0,35	0,8 - 4,0	
MF19	CCGT 09T304-MF19	●			●									0,08 - 0,25	0,6 - 4,0	
	CCGT 09T308-MF19	●			●									0,10 - 0,35	0,8 - 4,0	
F	CCMT 09T304-F			●				●						0,05 - 0,2	0,25 - 2,0	
	CCMT 09T308-F			●				●						0,05 - 0,2	0,25 - 2,0	
F10	CCMT 09T302-F10		●			●								0,04 - 0,12	0,1 - 1,0	
	CCMT 09T304-F10		●			●								0,05 - 0,16	0,1 - 1,5	

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CC 09T3	80°	<h1>STEEL</h1>
		DIAMOND	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS


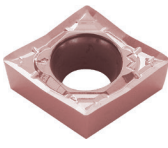
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

SECONDARY USE	PRIMARY USE
○	●
⊖	⊖
⊕	⊕

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●				⊖	⊖								
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S	○		○				⊖	⊕								
	HARDENED STEEL	H																

Machining Types	
○	●
⊖	⊖
⊕	⊕

CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	GRADE → DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe			
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
		140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170					
F12 	CCGT 09T3005-F12	●			●											0,02 - 0,06	0,1 - 1,5
	CCGT 09T301-F12	●			●											0,02 - 0,06	0,1 - 1,5
	CCGT 09T302-F12	●			●											0,05 - 0,12	0,2 - 2,0
	CCGT 09T304-F12	●			●											0,08 - 0,25	0,2 - 2,5
	CCGT 09T308-F12	●			●											0,10 - 0,30	0,3 - 3,0
W1 	CCGT 09T302-W1	●													0,10 - 0,30	0,3 - 3,0	
	CCGT 09T304-W1	●													0,12 - 0,40	0,5 - 4,0	
	CCGT 09T308-W1	●													0,15 - 0,50	0,7 - 4,0	

CARBIDE	CC	80°	STEEL
	1204	DIAMOND	
		7° POSITIVE	

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS

Tolerance Classes	CLASS	m	d	s
	<i>E</i>	± 0,025	± 0,025	± 0,025
	<i>G</i>	± 0,025	± 0,025	± 0,13
	<i>H</i>	± 0,013	± 0,013	± 0,025
	<i>M</i>	± 0,13	± 0,08	± 0,13
	<i>U</i>	± 0,20	± 0,13	± 0,13

SECONDARY USE	PRIMARY USE
○	●
⊖	⊖
⊕	⊕

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○														
	CAST IRON	K	●	○	●														
	NON-FERROUS METAL	N																	
	EXOTIC ALLOY	S	○		○														
	HARDENED STEEL	H																	

Machining Types	Secondary Use	Primary Use	Application
○	●	●	CONTINUOUS CUTTING
⊖	⊖	⊖	GENERAL CUTTING
⊕	⊕	⊕	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Steel Groupe					
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT				
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			P1,2	P1,2,3	P1,2,3	P1,2,3
M	CCMT 120404-M			●														0,16 - 0,44	0,5 - 5,0
	CCMT 120408-M			●							●							0,16 - 0,44	0,5 - 5,0
E-M1	CCGT 120408 EL-M1										●							0,2 - 0,45	1,0 - 3,2
	CCGT 120408 ER-M1										●							0,2 - 0,45	1,0 - 3,2
	CCGT 120412 EL-M1										●							0,2 - 0,45	1,0 - 3,2
	CCGT 120412 ER-M1										●							0,2 - 0,45	1,0 - 3,2
M10	CCMT 120404-M10																	0,12 - 0,25	0,4 - 3,5
	CCMT 120408-M10																	0,12 - 0,32	0,5 - 3,5
MF7	CCMT 120404-MF7																	0,12 - 0,25	0,4 - 3,5
	CCMT 120408-MF7																	0,12 - 0,32	0,5 - 3,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CC	80°	STEEL
	1204	DIAMOND	
		7° POSITIVE	

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS

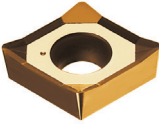
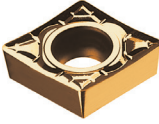

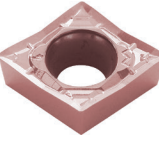
Tolerance Classes	CLASS	m	d	s
	<i>E</i>	± 0,025	± 0,025	± 0,025
	<i>G</i>	± 0,025	± 0,025	± 0,13
	<i>H</i>	± 0,013	± 0,013	± 0,025
	<i>M</i>	± 0,13	± 0,08	± 0,13
	<i>U</i>	± 0,20	± 0,13	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P												
	STAINLESS STEEL	M												
	CAST IRON	K												
	NON-FERROUS METAL	N												
	EXOTIC ALLOY	S												
	HARDENED STEEL	H												

Machining Types

		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

GEOMETRY ↓	DESIGNATION ↓	MACHINING MATERIAL GROUPE →											Steel Groupe			
		Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE ↓	AP (MM) DEPTH OF CUT ↓		
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3				
A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1						
MF17 	CCGT 120401-MF17	●													0,05 - 0,12	0,5 - 2,0
	CCGT 120402-MF17	●			●										0,05 - 0,12	0,5 - 2,0
	CCGT 120404-MF17	●			●										0,08 - 0,25	0,6 - 5,0
	CCGT 120408-MF17	●			●										0,10 - 0,35	0,8 - 5,0
MF19 	CCGT 120404-MF19	●			●									0,08 - 0,25	0,6 - 5,0	
	CCGT 120408-MF19	●			●									0,10 - 0,35	0,8 - 5,0	
F 	CCMT 120404-F			●				●						0,05 - 0,2	0,25 - 2,0	
W1 	CCGT 120404-W1	●												0,12 - 0,40	0,5 - 4,0	
	CCGT 120408-W1	●												0,15 - 0,50	0,7 - 4,0	

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CC	80°	STEEL
	2509	DIAMOND	
		7° POSITIVE	


25,40	d	INSCRIBED CIRCLE
25,80	l	CUTTING EDGE LENGTH
9,52	s	THICKNESS

Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,18	± 0,13	± 0,13
	U	± 0,38	± 0,25	± 0,13

SECONDARY USE	PRIMARY USE	
○	●	CONTINUOUS CUTTING
◐	◑	GENERAL CUTTING
⊕	⊖	INTERRUPTED CUTTING

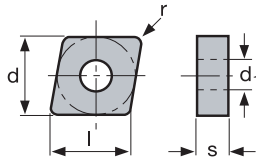
MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	STAINLESS STEEL	M	○		○	○				◐	◐	⊕		⊕				
	CAST IRON	K	●		○	●				◐	●			⊕				
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S	○			○				◐	⊕							
	HARDENED STEEL	H																

Machining Types

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Steel Groupe			
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
R3	CCMT 250924-R3			●				●							0,5 - 2	3,2 - 15,0
																

CARBIDE	CN 0903	80°	<h1>STEEL</h1>
		DIAMOND	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

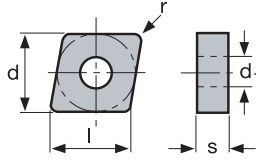
MACHINING MATERIAL	STEEL	P															
	STAINLESS STEEL	M															
	CAST IRON	K															
	NON-FERROUS METAL	N															
	EXOTIC ALLOY	S															
	HARDENED STEEL	H															

Machining Types	

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe	
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
M	CNMG 090308-M				●				●				●			
M6	CNMG 090304-M6									●						
	CNMG 090308-M6									●						

CARBIDE	CN	80°	STEEL
	1204	DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

Machining Types	
○	●
⊖	⊖
⊕	⊕

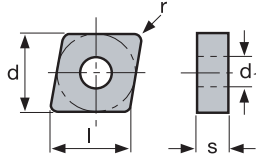
○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ⊖ INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe	
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
R	CNMM 120408-R				●				●				●	0,4 - 1,6	2,0 - 12,5	
	CNMM 120412-R			●					●				●	0,4 - 1,6	2,0 - 12,5	
R8	CNMM 120408-R8							●				●		0,30 - 0,5	0,8 - 7,0	
	CNMM 120412-R8							●						0,35 - 0,7	1,2 - 7,0	
MR	CNMG 120408-MR				●				●				●	0,32 - 0,8	1,2 - 8,0	
	CNMG 120412-MR				●				●				●	0,32 - 0,8	1,2 - 8,0	
	CNMG 120416-MR				●				●				●	0,32 - 0,8	1,2 - 8,0	
MR1	CNMG 120408-MR1				●				●					0,19 - 0,8	1,4 - 4,0	
	CNMG 120412-MR1				●				●					0,19 - 0,8	1,4 - 4,0	

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CN	80°	STEEL
	1204	DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

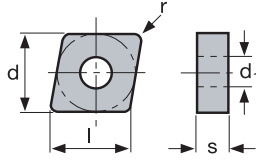
Machining Material		P	M	K	N	S	H
STEEL	P	●	●	●	●	●	●
STAINLESS STEEL	M	○	○	○	○	○	○
CAST IRON	K	●	○	●	○	○	○
NON-FERROUS METAL	N	○	○	○	○	○	○
EXOTIC ALLOY	S	○	○	○	○	○	○
HARDENED STEEL	H	○	○	○	○	○	○

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groupe		
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170		
MR2	CNGG 120408-MR2				●				●					0,2 - 0,45	1,0 - 3,2
M	CNMG 120408-M				●				●				●	0,16 - 0,4	0,8 - 5,0
	CNMG 120412-M				●				●				●	0,16 - 0,4	0,8 - 5,0
	CNMG 120416-M				●				●				●	0,16 - 0,4	0,8 - 5,0
E-M1	CNMG 120404 EL-M1												●	0,2 - 0,45	1,0 - 3,2
	CNMG 120404 ER-M1												●	0,2 - 0,45	1,0 - 3,2
	CNMG 120408 EL-M1												●	0,2 - 0,45	1,0 - 3,2
	CNMG 120408 ER-M1												●	0,2 - 0,45	1,0 - 3,2
MF	CNMG 120404-MF				●				●					0,08 - 0,32	0,5 - 4,0
	CNMG 120408-MF				●				●				●	0,08 - 0,32	0,5 - 4,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CN 1204	80°	STEEL
		DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	MACHINING MATERIAL		Tolerance Classes															
	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
STAINLESS STEEL	M	○		○	○					○	○	○	○	○	○	○	○	○
CAST IRON	K	●		○	●					○	○	○	○	○	○	○	○	○
NON-FERROUS METAL	N																	
EXOTIC ALLOY	S	○			○													
HARDENED STEEL	H																	

Machining Types	
○	●
○	○
○	○

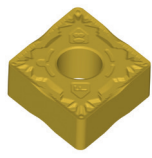
○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ○ GENERAL CUTTING
 ○ INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe				
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3						
F	CNMG 120404-F			●					●								0,05 - 0,2	0,12 - 1,9
	CNMG 120408-F			●					●								0,05 - 0,2	0,12 - 1,9

Steel Groupe
P1 - Unalloyed
P2 - Low alloyed
P3 - High alloyed / Tool steel
P4 - P1,2,3 up to 1000 N/mm²

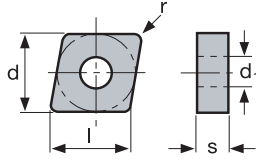
F (MM/REV)
FEED RATE
 ↓
 0,05 - 0,2

AP (MM)
DEPTH OF CUT
 ↓
 0,12 - 1,9



CARBIDE	CN	80°	STEEL
	1606	DIAMOND	
		0° NEGATIVE	

15,88	d	INSCRIBED CIRCLE
16,10	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS

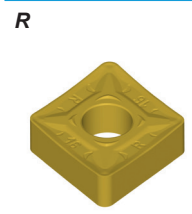


Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,15	± 0,10	± 0,13
	U	± 0,27	± 0,18	± 0,13

Machining Types	Machining Material	
	STEEL	STAINLESS STEEL
○	●	CONTINUOUS CUTTING
⊖	⊖	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

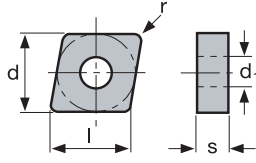
MACHINING MATERIAL GROUPE →		Steel Groupe												
Vc (M/MIN) CUTTING SPEED →		P1 - Unalloyed P2 - Low alloyed P3 - High alloyed / Tool steel P4 - P1,2,3 up to 1000 N/mm²												
GRADE →		F (MM/REV) FEED RATE AP (MM) DEPTH OF CUT												
GEOMETRY		DESIGNATION												
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3		
		140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170		
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1		



ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CN	80°	STEEL
	1606	DIAMOND	
		0° NEGATIVE	

15,88	d	INSCRIBED CIRCLE
16,10	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,15	± 0,10	± 0,13
	U	± 0,27	± 0,18	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

Machining Types	
○	●
⊖	⊕
⊕	⊖

○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ⊖ INTERRUPTED CUTTING
 ⊕

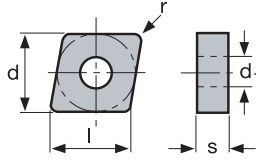
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Steel Groupe		
		Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
GRADE →		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1		
M	CNMG 160608-M			●				●				●	0,16 - 0,4	0,8 - 5,0
	CNMG 160612-M			●				●				●	0,16 - 0,4	0,8 - 5,0
	CNMG 160616-M			●				●				●	0,16 - 0,4	0,8 - 5,0



CARBIDE **CN 1906** 80°
DIAMOND
0° NEGATIVE

STEEL

19,05	d	INSCRIBED CIRCLE
19,30	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS

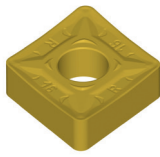
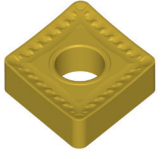
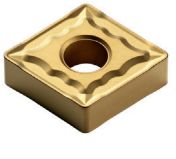



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,15	± 0,10	± 0,13	
U	± 0,27	± 0,18	± 0,13	

SECONDARY USE	PRIMARY USE
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	CAST IRON	K	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	NON-FERROUS METAL	N	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	EXOTIC ALLOY	S	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	HARDENED STEEL	H	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

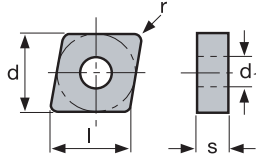
Machining Types	
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe		
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
R 	CNMM 190612-R			●				●							0,4 - 1,6	2,0 - 12,5
	CNMM 190616-R			●				●				●			0,4 - 1,6	2,0 - 12,5
	CNMM 190624-R			●				●				●			0,4 - 1,6	2,0 - 12,5
R4 	CNMM 190616-R4			●				●				●			0,4 - 1,6	1,5 - 12,0
R7 	CNMG 190612-R7							●							0,25 - 0,65	1,2 - 10,0
	CNMG 190616-R7											●			0,35 - 0,80	1,6 - 10,0
R8 	CNMM 190616-R8					●						●			0,40 - 0,9	1,6 - 10,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CN	80°	STEEL
	1906	DIAMOND	
		0° NEGATIVE	

19,05	d	INSCRIBED CIRCLE
19,30	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS




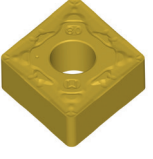
Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,15	± 0,10	± 0,13
	U	± 0,27	± 0,18	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

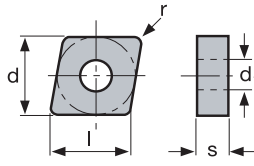
Machining Types	
○	●
⊖	⊖
⊕	⊕

CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	GRADE → DESIGNATION	MACHINING MATERIAL GROUPE →										Steel Groupe		
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MR 	CNMG 190612-MR			●				●					0,32 - 0,8	1,2 - 8,0
	CNMG 190616-MR			●				●					0,32 - 0,8	1,2 - 8,0
	CNMG 190624-MR			●				●					0,32 - 0,8	1,2 - 8,0
M 	CNMG 190612-M			●				●					0,16 - 0,4	0,8 - 5,0
	CNMG 190616-M			●				●					0,16 - 0,4	0,8 - 5,0

CARBIDE	CN	80°	STEEL
	2507	DIAMOND	
		0° NEGATIVE	

25,40	d	INSCRIBED CIRCLE
25,80	l	CUTTING EDGE LENGTH
7,94	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,18	± 0,13	± 0,13	
U	± 0,38	± 0,25	± 0,13	

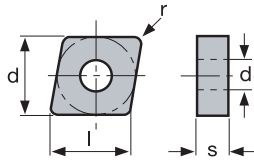
Machining Types	Steel Groups	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groupe				
			Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3				
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
R2	CNMM 250724-R2				●				●				●			0,8 - 1,6	2,5 - 12,5

CARBIDE	CN 2509	80°	<h1>STEEL</h1>
		DIAMOND	
		0° NEGATIVE	

25,40	d	INSCRIBED CIRCLE
25,80	l	CUTTING EDGE LENGTH
9,52	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,18	± 0,13	± 0,13	
U	± 0,38	± 0,25	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

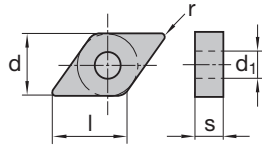
MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

Machining Types	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe	
		Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
GRADE →		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
R2	CNMM 250924-R2			●				●				●	0,8 - 1,6	2,5 - 12,5	
		<p>P1,2 P1,2,3 P1,2,3 P1,2 P1,2,3 P4 P1,2,3 P1,2,3 P1,2,3 P1,2,3 P1,2,3</p> <p>140-320 70-400 80-360 120-280 70-350 70-300 50-250 80-240 50-230 70-270 60-170</p>												<p>P1 - Unalloyed P2 - Low alloyed P3 - High alloyed / Tool steel P4 - P1,2,3 up to 1000 N/mm²</p>	

CARBIDE	DC	55°	STEEL
	0702	DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
7,70	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

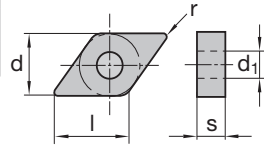
MACHINING MATERIAL	STEEL	P																			
	STAINLESS STEEL	M																			
	CAST IRON	K																			
	NON-FERROUS METAL	N																			
	EXOTIC ALLOY	S																			
	HARDENED STEEL	H																			

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe	
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
M	DCMT 070204-M				●				●					0,16 - 0,44	0,5 - 5,0	
E-M1	DCGT 070204 EL-M1								●				●	0,2 - 0,45	1,0 - 3,2	
	DCGT 070204 ER-M1								●				●	0,2 - 0,45	1,0 - 3,2	
M10	DCMT 070202-M10						●							0,05 - 0,12	0,4 - 2,0	
	DCMT 070204-M10						●					●		0,08 - 0,20	0,4 - 2,0	
	DCMT 070208-M10						●							0,12 - 0,25	0,5 - 2,0	
MF7	DCMT 070202-MF7						●							0,05 - 0,12	0,4 - 2,0	
	DCMT 070204-MF7			●			●							0,08 - 0,20	0,4 - 2,0	

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DC	55°	STEEL
	0702	DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
7,70	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	STAINLESS STEEL	M	○	○	○													
	CAST IRON	K	●	○	●													
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S	○		○													
	HARDENED STEEL	H																

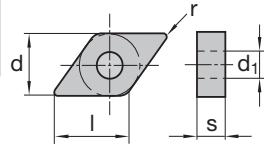
Machining Types	SECONDARY USE	PRIMARY USE	DESCRIPTION
○	●	●	CONTINUOUS CUTTING
⊖	⊖	⊖	GENERAL CUTTING
⊕	⊕	⊕	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groupe			
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			Vc (M/MIN) CUTTING SPEED →													
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170			
	DCGT 0702005-MF17		●			●									0,02 - 0,06	0,5 - 1,5
	DCGT 070201-MF17		●			●									0,02 - 0,06	0,5 - 1,5
	DCGT 070202-MF17		●			●									0,05 - 0,12	0,5 - 2,0
	DCGT 070204-MF17		●			●									0,08 - 0,25	0,6 - 2,5
	DCGT 070204-MF19		●			●									0,08 - 0,25	0,6 - 2,5
	DCMT 070202-F				●			●							0,05 - 0,2	0,25 - 2,0
	DCMT 070204-F				●			●							0,05 - 0,2	0,25 - 2,0
	DCMT 070202-F10						●								0,05 - 0,12	0,4 - 2,0
	DCMT 070204-F10			●			●								0,08 - 0,20	0,4 - 2,0
	DCMT 070208-F10						●								0,12 - 0,25	0,5 - 2,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DC	55°	STEEL
	0702	DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
7,70	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



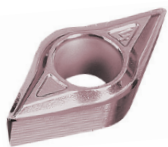
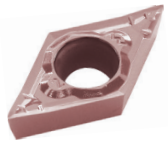
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

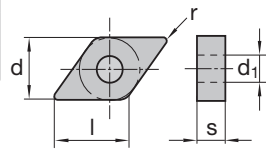
Machining Types	
○	●
⊖	⊕
⊕	⊖

CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe	
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
F12 	DCGT 0702005-F12		●			●									0,02 - 0,06	0,1 - 1,5
	DCGT 070201-F12		●			●									0,02 - 0,06	0,1 - 1,5
	DCGT 070202-F12		●			●									0,05 - 0,12	0,2 - 2,0
	DCGT 070204-F12		●			●									0,08 - 0,25	0,2 - 2,5
W1 	DCGT 070202-W1		●												0,10 - 0,30	0,3 - 3,0
	DCGT 070204-W1		●												0,12 - 0,40	0,5 - 4,0
	DCGT 070208-W1		●												0,15 - 0,50	0,5 - 4,0

CARBIDE	DC 11T3	55°	STEEL
		DIAMOND	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

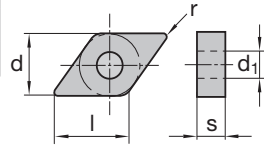
Machining Types	○	●	CONTINUOUS CUTTING
	⊖	⊖	GENERAL CUTTING
	⊕	⊕	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →										Steel Groupe		
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170		
M 	DCMT 11T304-M				●				●					0,16 - 0,44	0,5 - 5,0
	DCMT 11T308-M				●				●					0,16 - 0,44	0,5 - 5,0
E-M1 	DCGT 11T304 EL-M1								●			●		0,2 - 0,45	1,0 - 3,2
	DCGT 11T304 ER-M1								●			●		0,2 - 0,45	1,0 - 3,2
	DCGT 11T308 EL-M1				●				●			●		0,2 - 0,45	1,0 - 3,2
	DCGT 11T308 ER-M1				●				●			●		0,2 - 0,45	1,0 - 3,2
M10 	DCMT 11T302-M10			●			●							0,05 - 0,12	0,4 - 2,0
	DCMT 11T304-M10			●			●					●		0,08 - 0,25	0,4 - 3,0
	DCMT 11T308-M10			●			●					●		0,12 - 0,32	0,5 - 3,0
MF7 	DCMT 11T302-MF7						●							0,05 - 0,12	0,4 - 2,0
	DCMT 11T304-MF7			●			●							0,08 - 0,25	0,4 - 3,0
	DCMT 11T308-MF7			●			●							0,12 - 0,32	0,5 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DC 11T3	55°	STEEL
		DIAMOND	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○														
	CAST IRON	K	●	○	●														
	NON-FERROUS METAL	N																	
	EXOTIC ALLOY	S	○		○														
	HARDENED STEEL	H																	

Machining Types	
○	●
○	●
○	●

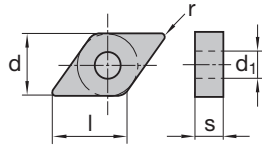
CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Steel Groupe		
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			Vc (M/MIN) CUTTING SPEED →													
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170			
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
	DCGT 11T301-MF17		●			●									0,02 - 0,06	0,5 - 1,5
	DCGT 11T302-MF17		●			●									0,05 - 0,12	0,5 - 2,0
	DCGT 11T304-MF17		●			●									0,08 - 0,25	0,6 - 3,0
	DCGT 11T308-MF17		●			●									0,10 - 0,30	0,8 - 3,5
	DCGT 11T304-MF19		●			●									0,08 - 0,25	0,6 - 3,0
	DCGT 11T308-MF19		●			●									0,10 - 0,30	0,8 - 3,5
	DCMT 11T302-F				●				●						0,05 - 0,2	0,25 - 2,0
	DCMT 11T304-F				●				●						0,05 - 0,2	0,25 - 2,0
	DCMT 11T302-F10			●			●								0,04 - 0,12	0,10 - 1,0
	DCMT 11T304-F10			●			●								0,05 - 0,16	0,10 - 1,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DC 11T3	55°	STEEL
		DIAMOND	
		7° POSITIVE	

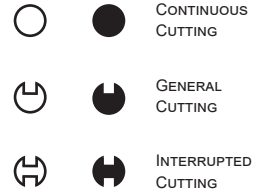
9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS

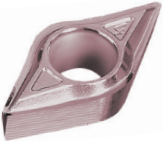
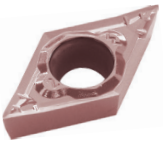


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

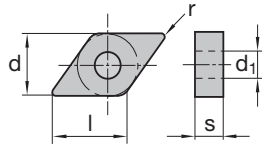
MACHINING MATERIAL	MATERIAL	GRADE	Tolerance Classes												Machining Types						
			●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	○	●	○
MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●
	STAINLESS STEEL	M	○	○	○													○	●	○	●
	CAST IRON	K	●		○	●												○	●	○	●
	NON-FERROUS METAL	N																○	●	○	●
	EXOTIC ALLOY	S	○			○												○	●	○	●
	HARDENED STEEL	H																○	●	○	●



GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe				
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			Vc (M/MIN) CUTTING SPEED →																
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1						
F12 	DCGT 11T3005-F12	●			●												0,02 - 0,06	0,1 - 1,5	
	DCGT 11T301-F12	●			●													0,02 - 0,06	0,1 - 1,5
	DCGT 11T302-F12	●			●													0,05 - 0,12	0,2 - 2,0
	DCGT 11T304-F12	●			●													0,08 - 0,25	0,2 - 2,5
	DCGT 11T308-F12	●			●													0,10 - 0,30	0,3 - 3,0
W1 	DCGT 11T302-W1	●															0,10 - 0,30	0,3 - 3,0	
	DCGT 11T304-W1	●																0,12 - 0,40	0,5 - 4,0
	DCGT 11T308-W1	●																0,15 - 0,50	0,5 - 4,0

CARBIDE	DN 1104	55°	STEEL
		DIAMOND	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



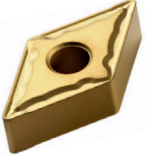
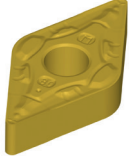
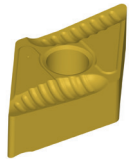
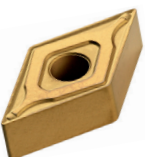
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○														
	CAST IRON	K	●	○	●														
	NON-FERROUS METAL	N																	
	EXOTIC ALLOY	S	○		○														
	HARDENED STEEL	H																	

Machining Types	
○	●
○	●
○	●

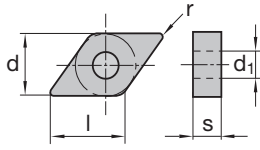
CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY ↓	DESIGNATION ↓	MACHINING MATERIAL GROUPE →											Steel Groupe				
		Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE ↓	AP (MM) DEPTH OF CUT ↓			
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3					
A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1							
R7 	DNMG 110408-R7						●									0,18 - 0,35	0,8 - 4,0
M 	DNMG 110408-M			●			●									0,16 - 0,4	0,8 - 5,0
E-M1 	DNMG 110404 EL-M1			●			●									0,2 - 0,45	1,0 - 3,2
	DNMG 110404 ER-M1			●			●									0,2 - 0,45	1,0 - 3,2
	DNMG 110408 EL-M1			●			●									0,2 - 0,45	1,0 - 3,2
	DNMG 110408 ER-M1			●			●									0,2 - 0,45	1,0 - 3,2
M7 	DNMG 110404-M7					●	●									0,10 - 0,18	0,5 - 2,0
	DNMG 110408-M7					●	●									0,15 - 0,25	0,8 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DN 1104	55°	STEEL
		DIAMOND	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

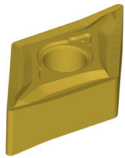
MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	HARDENED STEEL	H	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Machining Types	
○	●
○	●
○	●

SECONDARY USE PRIMARY USE

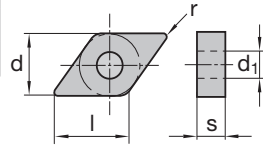
○ CONTINUOUS CUTTING
● GENERAL CUTTING
○ INTERRUPTED CUTTING
●

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Steel Groupe	
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
MF	DNMG 110404-MF		●				●					●	0,08 - 0,32	0,5 - 4,0
	DNMG 110408-MF		●				●						0,08 - 0,32	0,5 - 4,0



CARBIDE	DN 1504	55°	STEEL
		DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

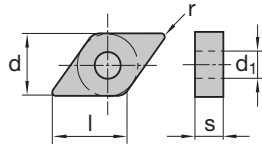
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groupe		
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170		
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1		
MR 	DNMG 150408-MR				●				●					0,32 - 0,8	1,2 - 8,0
	DNMG 150412-MR			●					●			●		0,32 - 0,8	1,2 - 8,0
M 	DNMG 150408-M				●				●			●		0,16 - 0,4	0,8 - 5,0
	DNMG 150412-M			●					●			●		0,16 - 0,4	0,8 - 5,0
E-M1 	DNMG 150404 EL-M1								●					0,2 - 0,45	1,0 - 3,2
	DNMG 150404 ER-M1								●					0,2 - 0,45	1,0 - 3,2
	DNMG 150408 EL-M1								●					0,2 - 0,45	1,0 - 3,2
	DNMG 150408 ER-M1								●					0,2 - 0,45	1,0 - 3,2
M7 	DNMG 150408-M7							●						0,15 - 0,25	0,8 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DN 1504	55°	STEEL
		DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



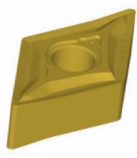
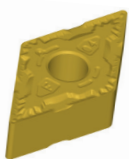

Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

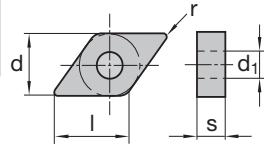
Machining Types	
○	●
⊖	⊕
⊕	⊖

○ ● CONTINUOUS CUTTING
 ⊖ ⊕ GENERAL CUTTING
 ⊕ ⊖ INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →										Steel Groupe				
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170	P1 - Unalloyed	P2 - Low alloyed	P3 - High alloyed / Tool steel	P4 - P1,2,3 up to 1000 N/mm²
MF	DNMG 150408-MF													0,08 - 0,32	0,5 - 4,0		
																	
F	DNMG 150404-F				●				●					0,05 - 0,2	0,12 - 1,9		
	DNMG 150408-F				●				●					0,05 - 0,2	0,12 - 1,9		
F5	DNMG 150404-F5				●									0,05 - 0,12	0,2 - 1,0		
	DNMG 150408-F5				●									0,07 - 0,16	0,4 - 1,5		

CARBIDE	DN	55°	STEEL
	1506	DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13

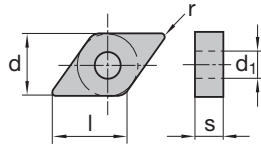
MACHINING MATERIAL	MATERIAL	GRADE	Tolerance Classes												Machining Types				
			Secondary Use						Primary Use						Secondary Use	Primary Use			
MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	CONTINUOUS CUTTING	
	STAINLESS STEEL	M	○	○	○				○	○	○	○	○	○	○	○	○	●	GENERAL CUTTING
	CAST IRON	K	●	○	●				○	○	○	○	○	○	○	○	○	○	INTERRUPTED CUTTING
	NON-FERROUS METAL	N																	
	EXOTIC ALLOY	S		○						○	○								
	HARDENED STEEL	H																	

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe		
			Vc (M/MIN) CUTTING SPEED →						F (MM/REV) FEED RATE						AP (MM) DEPTH OF CUT		
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
	DNMM 150608-R				●				●					●		0,4 - 1,6	2,0 - 12,5
	DNMM 150612-R				●				●					●		0,4 - 1,6	2,0 - 12,5
	DNMM 150616-R				●				●					●		0,4 - 1,6	2,0 - 12,5
	DNMG 150608-R7							●	●				●			0,15 - 0,35	0,8 - 5,0
	DNMG 150612-R7							●	●							0,20 - 0,55	1,0 - 5,0
	DNMG 150608-MR				●				●					●		0,32 - 0,8	1,2 - 8,0
	DNMG 150612-MR				●				●					●		0,32 - 0,8	1,2 - 8,0
	DNMG 150616-MR				●				●					●		0,32 - 0,8	1,2 - 8,0
	DNMG 150612-MR1				●				●							0,19 - 0,8	1,4 - 4,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DN	55°	STEEL
	1506	DIAMOND	
	0° NEGATIVE		

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13

SECONDARY USE	PRIMARY USE
○	●
○	●
○	●

MACHINING MATERIAL	STEEL	P																			
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●				○	○											
	NON-FERROUS METAL	N																			
	EXOTIC ALLOY	S	○			○						○	○								
	HARDENED STEEL	H																			

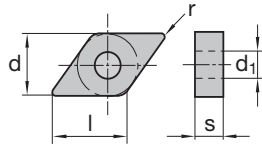
○	●	○	CONTINUOUS CUTTING
○	●	○	GENERAL CUTTING
○	●	○	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →												Steel Groupe	
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
M	DNMG 150608-M				●				●					●	0,16 - 0,4	0,8 - 5,0
	DNMG 150612-M				●				●					●	0,16 - 0,4	0,8 - 5,0
	DNMG 150616-M				●				●						0,16 - 0,4	0,8 - 5,0
E-M1	DNMG 150604 EL-M1				●				●					●	0,2 - 0,45	1,0 - 3,2
	DNMG 150604 ER-M1				●				●					●	0,2 - 0,45	1,0 - 3,2
	DNMG 150608 EL-M1				●				●					●	0,2 - 0,45	1,0 - 3,2
	DNMG 150608 ER-M1				●				●					●	0,2 - 0,45	1,0 - 3,2
M7	DNMG 150604-M7							●	●						0,10 - 0,18	0,5 - 2,5
	DNMG 150608-M7							●	●						0,15 - 0,25	0,8 - 3,0
MF	DNMG 150604-MF				●				●					●	0,08 - 0,32	0,5 - 4,0
	DNMG 150608-MF				●				●						0,08 - 0,32	0,5 - 4,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DN 1506	55°	STEEL
		DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

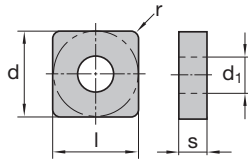
Machining Types	Steel Groups	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P	Tolerance Classes																		
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	HARDENED STEEL	H	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →													Steel Groups			
			Vc (M/MIN) CUTTING SPEED →		P1,2		P1,2,3		P1,2,3		P1,2		P1,2,3		P4		P1,2,3		P1,2,3
				A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
MF3 	DNMG 150604-MF3							●							0,22 - 0,40	1,0 - 3,5			
	DNMG 150608-MF3							●							0,22 - 0,40	1,2 - 4,0			
F 	DNMG 150604-F			●						●					0,05 - 0,2	0,12 - 1,9			
	DNMG 150608-F			●						●				●	0,05 - 0,2	0,12 - 1,9			
F5 	DNMG 150604-F5		●					●							0,05 - 0,12	0,2 - 1,0			
	DNMG 150608-F5							●							0,07 - 0,16	0,4 - 1,5			

CARBIDE	SC	90°	STEEL
	09T3	SQUARE	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
9,52	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

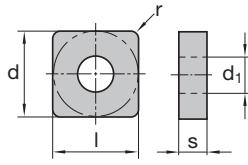
MACHINING MATERIAL	STEEL	P																		
	STAINLESS STEEL	M																		
	CAST IRON	K																		
	NON-FERROUS METAL	N																		
	EXOTIC ALLOY	S																		
	HARDENED STEEL	H																		

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →													Steel Groupe											
			Vc (M/MIN) CUTTING SPEED →													F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT										
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1	P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
M	SCMT 09T308-M				●				●																	0,16 - 0,44	0,5 - 5,0
M2	SCMT 09T308-M2				●				●																	0,2 - 0,45	1,0 - 5,0
M10	SCMT 09T304-M10							●					●													0,08 - 0,25	0,4 - 3,0
	SCMT 09T308-M10							●					●													0,12 - 0,32	0,5 - 3,0
MF17	SCGT 09T304-MF17		●		●																					0,08 - 0,25	0,6 - 4,0
	SCGT 09T308-MF17		●		●																					0,10 - 0,35	0,7 - 4,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	SC	90°	STEEL
	09T3	SQUARE	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
9,52	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

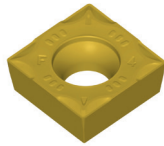
MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	HARDENED STEEL	H	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Machining Types	
○	●
○	●
○	●

SECONDARY USE PRIMARY USE

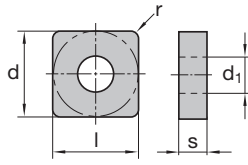
○ CONTINUOUS CUTTING
● GENERAL CUTTING
○ INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Steel Groupe			
		Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
		GRADE →														
F	SCMT 09T304-F	P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			0,05 - 0,2	0,25 - 2,0
	SCMT 09T308-F			●											0,05 - 0,2	0,25 - 2,0



CARBIDE	SC	90°	STEEL
	1204	SQUARE	
		7° POSITIVE	

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●
	STAINLESS STEEL	M	○	○	○				○	○	○	○	○	○	○
	CAST IRON	K	●	○	●				○	○	○	○	○	○	○
	NON-FERROUS METAL	N													
	EXOTIC ALLOY	S	○		○										
	HARDENED STEEL	H													

Machining Types	
○	●
○	○
○	○

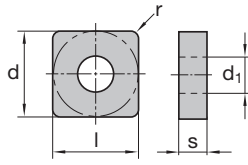
CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Steel Groupe		
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
GRADE →	DESIGNATION	VC (M/MIN) CUTTING SPEED →													
		140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170			
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
M	SCMT 120408-M			●				●						0,16 - 0,44	0,5 - 5,0
	SCMT 120412-M			●				●						0,16 - 0,44	0,5 - 5,0
M2	SCMT 120408-M2			●				●						0,2 - 0,45	0,9 - 5,0
M10	SCMT 120404-M10									●				0,08 - 0,25	0,4 - 3,0
	SCMT 120408-M10		●			●					●			0,12 - 0,32	0,5 - 3,5
MF9	SCMT 120408-MF9									●				0,12 - 0,32	0,5 - 2,5
	SCMT 120412-MF9									●				0,12 - 0,32	0,5 - 2,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	SC	90°	STEEL
	1204	SQUARE	
		7° POSITIVE	

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



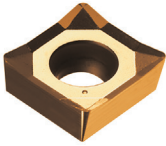
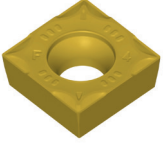
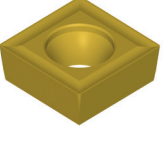
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

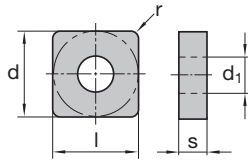
Machining Types	
○	●
⊖	⊖
⊕	⊕

CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →												Steel Groupe	
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
MF17 	SCGT 120404-MF17		●			●									0,10 - 0,40	0,4 - 6,0
	SCGT 120408-MF17		●			●									0,10 - 0,40	0,9 - 6,0
	SCGT 120412-MF17		●												0,10 - 0,40	1,2 - 6,0
F 	SCMT 120404-F				●			●							0,05 - 0,2	0,25 - 2,0
- 	SCMT 120404												●		0,05 - 0,3	0,4 - 2,0

CARBIDE	SC 2509	90°	STEEL
		SQUARE	
		7° POSITIVE	

25,40	d	INSCRIBED CIRCLE
25,40	l	CUTTING EDGE LENGTH
9,52	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,18	± 0,13	± 0,13	
U	± 0,38	± 0,25	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

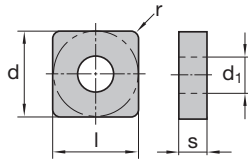
MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

Machining Types	

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe		
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
R1 	SCMT 250916-R1				●				●				●			0,5 - 2,0	3,2 - 15,0
	SCMT 250924-R1				●				●				●			0,5 - 2,0	3,2 - 15,0
R3 	SCMT 250924-R3				●				●				●			0,5 - 2,0	3,2 - 15,0

CARBIDE	SN 0903	90°	<h1>STEEL</h1>
		SQUARE	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
9,52	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	HARDENED STEEL	H	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Machining Types

○	●	CONTINUOUS CUTTING
○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING

SECONDARY USE (○) PRIMARY USE (●)

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groupe					
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
MF	SNMG 090304-MF			●			●										0,08 - 0,32	0,5 - 4,0

Vc (M/MIN) CUTTING SPEED →

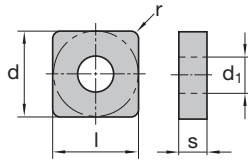
140-320, 70-400, 80-360, 120-280, 70-350, 70-300, 50-250, 80-240, 50-230, 70-270, 60-170

Steel Groupe:
P1 - Unalloyed
P2 - Low alloyed
P3 - High alloyed / Tool steel
P4 - P1,2,3 up to 1000 N/mm²



CARBIDE	SN	90°	STEEL
	1204	SQUARE	
		0° NEGATIVE	

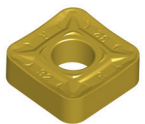
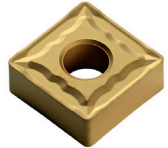
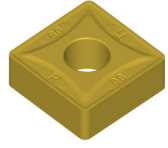
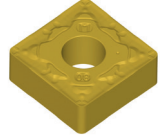
12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

Machining Types	Machining Material	
	STEEL (P)	OTHER (M, K, N, S, H)
○	●	CONTINUOUS CUTTING
⊖	⊖	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING

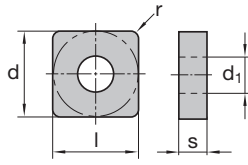
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY	GRADE → DESIGNATION	MACHINING MATERIAL GROUPE →										Steel Groupe		
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
		140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170		
R 	SNMM 120408-R			●				●				●	0,4 - 1,6	2,0 - 12,5
	SNMM 120412-R			●				●				●	0,4 - 1,6	2,0 - 12,5
R7 	SNMG 120408-R7					●							0,20 - 0,50	0,8 - 5,0
	SNMG 120412-R7							●					0,25 - 0,65	1,0 - 6,0
MR 	SNMG 120408-MR			●				●				●	0,32 - 0,8	1,2 - 8,0
	SNMG 120412-MR			●				●				●	0,32 - 0,8	1,2 - 8,0
M 	SNMG 120408-M			●				●				●	0,16 - 0,4	0,8 - 5,0
	SNMG 120412-M			●				●				●	0,16 - 0,4	0,8 - 5,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	SN	90°	STEEL
	1204	SQUARE	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



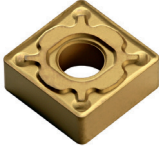
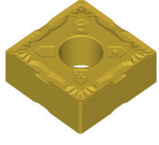
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

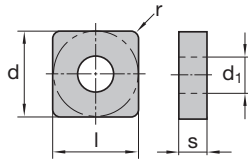
Machining Types	
○	●
⊖	⊕
⊗	⊙

○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ⊖ INTERRUPTED CUTTING
 ⊕

GEOMETRY	GRADE → DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe	
		P1,2			P1,2,3			P1,2,3			P4			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →													
		140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170			
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
M7	SNMG 120408-M7					●							0,15 - 0,25	0,8 - 3,0	
															
F	SNMG 120404-F			●				●					0,05 - 0,2	0,12 - 1,9	
															

CARBIDE	SN	90°	STEEL
	1506	SQUARE	
		0° NEGATIVE	

15,88	d	INSCRIBED CIRCLE
15,88	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,15	± 0,10	± 0,13	
U	± 0,27	± 0,18	± 0,13	

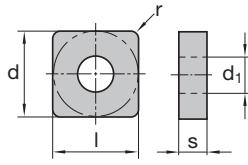
Machining Types	Steel Groups	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groups			
			Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
R	SNMM 150612-R				●				●				●		0,4 - 1,6	2,0 - 12,5
	SNMM 150616-R			●					●				●		0,4 - 1,6	2,0 - 12,5
MR	SNMG 150608-MR				●				●				●		0,32 - 0,8	1,2 - 8,0
	SNMG 150612-MR				●				●				●		0,32 - 0,8	1,2 - 8,0
	SNMG 150616-MR				●				●				●		0,32 - 0,8	1,2 - 8,0
M	SNMG 150608-M				●				●				●		0,16 - 0,4	0,8 - 5,0

CARBIDE	SN	90°	STEEL
	1906	SQUARE	
		0° NEGATIVE	

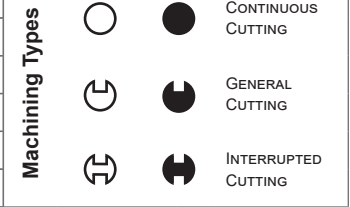
19,05	d	INSCRIBED CIRCLE
19,05	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS

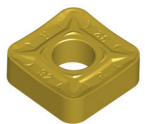
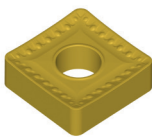
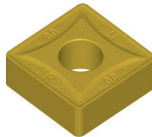
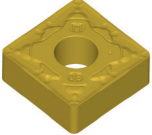


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,15	± 0,10	± 0,13	
U	± 0,27	± 0,18	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	MACHINING MATERIAL		MACHINING TYPES															
	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
STAINLESS STEEL	M	○	○	○				○	○	○	○	○	○	○	○	○	○	○
CAST IRON	K	●	○	●				○	○	○	○	○	○	○	○	○	○	○
NON-FERROUS METAL	N																	
EXOTIC ALLOY	S	○		○														
HARDENED STEEL	H																	

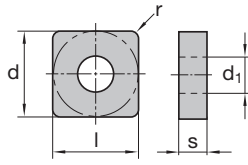


GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groupe		
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170		
R 	SNMM 190612-R				●				●				●	0,4 - 1,6	2,0 - 12,5
	SNMM 190616-R				●				●				●	0,4 - 1,6	2,0 - 12,5
	SNMM 190624-R				●				●				●	0,4 - 1,6	2,0 - 12,5
	SNMM 190632-R				●				●				●	0,4 - 1,6	2,0 - 12,5
R4 	SNMM 190616-R4				●				●				●	0,4 - 1,6	1,5 - 12,0
	SNMM 190624-R4				●				●				●	0,4 - 1,6	1,5 - 12,0
MR 	SNMG 190612-MR				●				●				●	0,32 - 0,8	1,2 - 8,0
	SNMG 190616-MR				●				●				●	0,32 - 0,8	1,2 - 8,0
M 	SNMG 190612-M				●				●				●	0,16 - 0,4	0,8 - 5,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	SN	90°	STEEL
	2507	SQUARE	
		0° NEGATIVE	

25,40	d	INSCRIBED CIRCLE
25,40	l	CUTTING EDGE LENGTH
7,94	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,18	± 0,13	± 0,13	
U	± 0,38	± 0,25	± 0,13	

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
		GENERAL CUTTING	
		INTERRUPTED CUTTING	

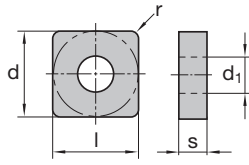
MACHINING MATERIAL	STEEL	P																			
	STAINLESS STEEL	M																			
	CAST IRON	K																			
	NON-FERROUS METAL	N																			
	EXOTIC ALLOY	S																			
	HARDENED STEEL	H																			

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Steel Groupe	
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3		
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1		
R	SNMM 250724-R								●					0,4 - 1,6	2,0 - 12,5
R2	SNMM 250724-R2				●				●				●	0,8 - 1,6	2,5 - 12,5
	SNMM 250732-R2				●				●				●	0,8 - 1,6	2,5 - 12,5
R4	SNMM 250724 -R4								●				●	0,4 - 1,6	1,5 - 12,0
-	SNMM 250716												●	0,05 - 0,3	0,4 - 2,0
	SNMM 250724								●				●	0,05 - 0,3	0,4 - 2,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	SN 2509	90°	STEEL
		SQUARE	
		0° NEGATIVE	

25,40	d	INSCRIBED CIRCLE
25,40	l	CUTTING EDGE LENGTH
9,52	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,18	± 0,13	± 0,13
	U	± 0,38	± 0,25	± 0,13

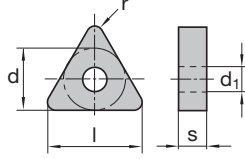
Machining Types	Steel Groups	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →		Vc (M/MIN) CUTTING SPEED →	Steel Groups										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
			P1,2	P1,2,3		P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3					
R2 	SNMM 250924-R2			●													0,8 - 1,6	2,5 - 12,5	
	SNMM 250932-R2			●														0,8 - 1,6	2,5 - 12,5
R4 	SNMM 250924 -R4																	0,4 - 1,6	1,5 - 12,0

CARBIDE	TC	60°	STEEL
	06T1	TRIANGLE	
		7° POSITIVE	

3,97	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
1,98	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

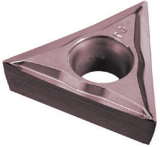
SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

Machining Types	
○	●
⊖	⊖
⊕	⊕

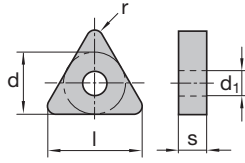
○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ⊖ INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →												Steel Groupe	
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
MF17	TCGT 06T101-MF17		●			●									0,02 - 0,06	0,5 - 1,0
	TCGT 06T102-MF17		●			●									0,05 - 0,12	0,6 - 1,2
F12	TCGT 06T102-F12		●			●									0,05 - 0,12	0,2 - 2,0



CARBIDE	TC	60°	STEEL
	0902	TRIANGLE	
		7° POSITIVE	

5,56	d	INSCRIBED CIRCLE
9,60	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS




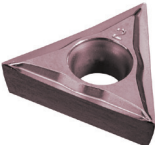
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

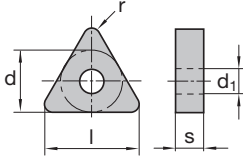
Machining Types	
○	●
⊖	⊖
⊕	⊕

○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ⊖ INTERRUPTED CUTTING
 ⊕

GEOMETRY	GRADE → DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe		
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →														
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
MF17 	TCGT 090202-MF17	●			●										0,05 - 0,12	0,6 - 1,6
	TCGT 090204-MF17	●			●										0,08 - 0,16	0,6 - 1,6
F12 	TCGT 090202-F12	●			●										0,05 - 0,12	0,2 - 2,0

CARBIDE	TC	60°	STEEL
	1102	TRIANGLE	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
11,00	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P															
	STAINLESS STEEL	M															
	CAST IRON	K															
	NON-FERROUS METAL	N															
	EXOTIC ALLOY	S															
	HARDENED STEEL	H															

Machining Types	
○	●
⊖	⊖
⊕	⊕

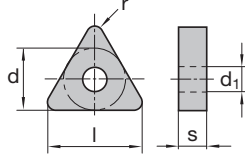
CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe				
		Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
		GRADE →																
M	TCMT 110204-M																0,16 - 0,44	0,5 - 5,0
	TCMT 110208-M																0,16 - 0,44	0,5 - 5,0
M1	TCGT 110204 EL-M1																0,2 - 0,45	1,0 - 3,2
	TCGT 110204 ER-M1																0,2 - 0,45	1,0 - 3,2
M10	TCMT 110204-M10																0,08 - 0,20	0,4 - 2,0
MF7	TCMT 110202-MF7																0,08 - 0,20	0,4 - 1,5
	TCMT 110204-MF7																0,08 - 0,20	0,4 - 2,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **TC 1102** **60°**
TRIANGLE
7° POSITIVE **STEEL**

6,35	d	INSCRIBED CIRCLE
11,00	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

SECONDARY USE	PRIMARY USE
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	CAST IRON	K	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	NON-FERROUS METAL	N	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	EXOTIC ALLOY	S	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	HARDENED STEEL	H	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

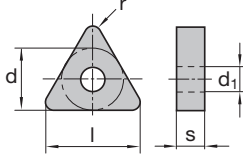
Machining Types	
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →												Steel Groupe	
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			Vc (M/MIN) CUTTING SPEED →													
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
MF17 	TCGT 110201-MF17		●			●									0,02 - 0,06	0,5 - 1,5
	TCGT 110202-MF17		●			●									0,05 - 0,12	0,6 - 2,0
	TCGT 110204-MF17		●			●									0,08 - 0,25	0,6 - 3,0
MF19 	TCGT 110204-MF19					●									0,08 - 0,25	0,6 - 3,0
F 	TCMT 110202-F				●				●						0,05 - 0,2	0,25 - 2,0
	TCMT 110204-F				●				●						0,05 - 0,2	0,25 - 2,0
F12 	TCGT 110201-F12		●			●									0,02 - 0,06	0,1 - 1,5
	TCGT 110202-F12		●			●									0,05 - 0,12	0,2 - 2,0
	TCGT 110204-F12		●			●									0,08 - 0,25	0,2 - 2,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	TC	60°	STEEL
	16T3	TRIANGLE	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○														
	CAST IRON	K	●	○	●														
	NON-FERROUS METAL	N																	
	EXOTIC ALLOY	S	○		○														
	HARDENED STEEL	H																	

Machining Types	
○	●
○	●
○	●

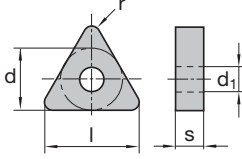
CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Steel Groupe	
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3		
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1		
M	TCMT 16T304-M				●				●					0,2 - 0,45	1,0 - 3,2
	TCMT 16T308-M			●					●					0,2 - 0,45	1,0 - 3,2
M1	TCGT 16T304 EL-M1								●				●	0,16 - 0,44	0,5 - 5,0
	TCGT 16T304 ER-M1								●				●	0,16 - 0,44	0,5 - 5,0
	TCGT 16T308 EL-M1								●				●	0,16 - 0,44	0,5 - 5,0
	TCGT 16T308 ER-M1								●				●	0,16 - 0,44	0,5 - 5,0
M10	TCMT 16T304-M10					●						●		0,08 - 0,25	0,4 - 3,0
	TCMT 16T308-M10					●						●		0,12 - 0,32	0,5 - 3,0
MF7	TCMT 16T304-MF7					●								0,08 - 0,25	0,4 - 3,0
	TCMT 16T308-MF7					●								0,12 - 0,32	0,5 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **TC 16T3** **60°**
TRIANGLE
7° POSITIVE **STEEL**

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

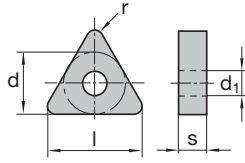
MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	CAST IRON	K	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	NON-FERROUS METAL	N	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	EXOTIC ALLOY	S	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	HARDENED STEEL	H	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Machining Types	
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →												Steel Groupe	
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
MF17 	TCGT 16T302-MF17		●			●									0,05 - 0,12	0,5 - 2,0
	TCGT 16T304-MF17		●			●									0,08 - 0,25	0,6 - 4,0
	TCGT 16T308-MF17		●			●									0,10 - 0,35	0,8 - 4,0
MF19 	TCGT 16T304-MF19		●			●									0,08 - 0,25	0,6 - 4,0
F12 	TCGT 16T301-F12		●												0,02 - 0,06	0,1 - 1,5
	TCGT 16T302-F12					●									0,05 - 0,12	0,2 - 2,0
	TCGT 16T304-F12					●									0,08 - 0,25	0,2 - 2,5

CARBIDE	TN	60°	STEEL
	1604	TRIANGLE	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

Machining Types	
○	●
⊖	⊖
⊕	⊕

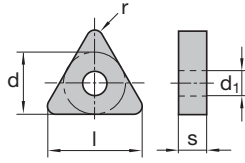
CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Steel Groupe		
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170			
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
R	TNMM 160408-R				●				●				●		0,4 - 1,6	2,0 - 12,5
R7	TNMG 160408-R7							●				●			0,20 - 0,40	0,8 - 5,0
	TNMG 160412-R7							●							0,25 - 0,55	0,9 - 5,0
M	TNMG 160408-M				●				●				●		0,16 - 0,4	0,8 - 5,0
	TNMG 160412-M				●				●				●		0,16 - 0,4	0,8 - 5,0
	TNMG 160416-M				●				●				●		0,16 - 0,4	0,8 - 5,0
M1	TNMG 160404 EL-M1				●				●				●		0,2 - 0,45	1,0 - 3,2
	TNMG 160404 ER-M1				●				●				●		0,2 - 0,45	1,0 - 3,2
	TNMG 160408 EL-M1				●				●				●		0,2 - 0,45	1,0 - 3,2
	TNMG 160408 ER-M1				●				●				●		0,2 - 0,45	1,0 - 3,2

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **TN** **1604** **60°** **TRIANGLE** **0° NEGATIVE** **STEEL**

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

MACHINING MATERIAL GROUPE →		Vc (M/MIN) CUTTING SPEED →		GRADE →		DESIGNATION	
P1,2	P1,2,3	140-320	70-400	A22-A2	A22-F2	A31-A1	A32-B2
P1,2,3	P1,2,3	80-360	120-280	A42-G2	A42-I2	A51-B1	A52-C2
P1,2	P1,2,3	70-350	70-300	A72-D2	A72-H2	A81-C1	
P4	P1,2,3	50-250	80-240				
P1,2,3	P1,2,3	50-230	70-270				
P1,2,3	P1,2,3	60-170					

Steel Groupe
P1 - Unalloyed
P2 - Low alloyed
P3 - High alloyed / Tool steel
P4 - P1,2,3 up to 1000 N/mm²

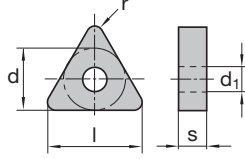
F (MM/REV) FEED RATE
AP (MM) DEPTH OF CUT

M7 	TNMG 160404-M7											0,10 - 0,18	0,5 - 2,0
	TNMG 160408-M7											0,15 - 0,25	0,8 - 3,0
MF 	TNMG 160404-MF											0,08 - 0,32	0,5 - 4,0
	TNMG 160408-MF											0,08 - 0,32	0,5 - 4,0
	TNMG 160412-MF											0,08 - 0,32	0,5 - 4,0
F 	TNMG 160404-F											0,05 - 0,2	0,12 - 1,9
	TNMG 160408-F											0,05 - 0,2	0,12 - 1,9
F5 	TNMG 160408-F5											0,07 - 0,16	0,4 - 1,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	TN	60°	STEEL
	2204	TRIANGLE	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
22,00	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

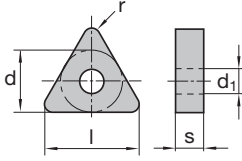
Machining Types	
○	●
⊖	⊕
⊕	⊖

○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ⊖ INTERRUPTED CUTTING
 ⊕

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →											Steel Groupe		
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
R	TNMM 220408-R				●				●				●		0,4 - 1,6	2,0 - 12,5
	TNMM 220412-R				●				●				●		0,4 - 1,6	2,0 - 12,5
M	TNMG 220408-M				●				●				●		0,16 - 0,4	0,8 - 5,0
	TNMG 220412-M				●				●				●		0,16 - 0,4	0,8 - 5,0

CARBIDE	TP 1103	60°	STEEL
		TRIANGLE	
		11° POSITIVE	

6,35	d	INSCRIBED CIRCLE
11,00	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



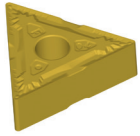
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

MACHINING TYPES	
○	●
⊖	⊕
⊗	⊙

SECONDARY USE (○) PRIMARY USE (●)
 CONTINUOUS CUTTING (⊖) GENERAL CUTTING (⊕)
 INTERRUPTED CUTTING (⊗) INTERRUPTED CUTTING (⊙)

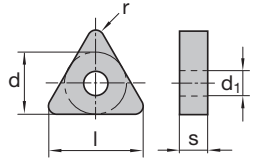
MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●					⊖	⊖					
	NON-FERROUS METAL	N														
	EXOTIC ALLOY	S	○		○					⊖	⊖					
	HARDENED STEEL	H														

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe					
		Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT				
		GRADE →																	
F	TPMR 110304-F																0,05 - 0,2	0,25 - 2,0	
	TPMR 110308-F																	0,05 - 0,2	0,25 - 2,0



CARBIDE **TP 1603** 60° TRIANGLE 11° POSITIVE **STEEL**

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS

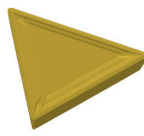


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P	Tolerance Classes																
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●														
	NON-FERROUS METAL	N																	
	EXOTIC ALLOY	S	○		○														
	HARDENED STEEL	H																	

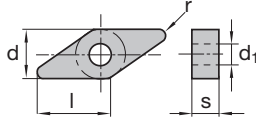
Machining Types		SECONDARY USE	PRIMARY USE	
○	●	○	●	CONTINUOUS CUTTING
⊖	⊖	⊖	⊖	GENERAL CUTTING
⊕	⊕	⊕	⊕	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe	
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170			
F	TPMR 160304-F				●				●				●		0,05 - 0,2	0,25 - 2,0
	TPMR 160308-F				●				●				●		0,05 - 0,2	0,25 - 2,0



CARBIDE **VB** 1604 **35°**
DIAMOND
5° POSITIVE **STEEL**

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

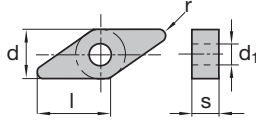
MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○														
	CAST IRON	K	●	○	●														
	NON-FERROUS METAL	N	○	○	○														
	EXOTIC ALLOY	S	○	○	○														
	HARDENED STEEL	H	○	○	○														

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	○
⊖	⊖	⊖	GENERAL CUTTING
⊕	⊕	⊕	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Steel Groupe				
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
	VBMT 160404			●				●							0,05 - 0,3	0,4 - 2,0
	VBMT 160408			●				●							0,05 - 0,3	0,4 - 2,0
	VBMT 160412			●				●							0,05 - 0,3	0,4 - 2,0

CARBIDE VC 0702	35°	STEEL
	DIAMOND	
	7° POSITIVE	

3,97	d	INSCRIBED CIRCLE
6,85	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

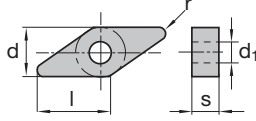
Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →														Steel Groupe		
			VC (M/MIN) CUTTING SPEED →														F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			GRADE →																
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1						
MF17 	VCGT 0702005-MF17		●			●												0,02 - 0,06	0,2 - 1,0
	VCGT 070201-MF17		●			●												0,02 - 0,06	0,2 - 1,0
	VCGT 070202-MF17		●			●												0,05 - 0,08	0,2 - 1,0
	VCGT 070204-MF17		●			●												0,08 - 0,12	0,2 - 1,0
F 	VCMT 070202-F				●				●									0,05 - 0,2	0,25 - 2,0
	VCMT 070204-F				●				●									0,05 - 0,2	0,25 - 2,0
F12 	VCGT 0702005-F12					●												0,02 - 0,06	0,1 - 1,0
	VCGT 070201-F12		●			●												0,02 - 0,06	0,1 - 1,0
	VCGT 070202-F12		●			●												0,05 - 0,08	0,2 - 1,0
	VCGT 070204-F12		●			●												0,08 - 1,20	0,2 - 1,0

CARBIDE **VC 1103** **35°**
DIAMOND
7° POSITIVE **STEEL**

6,35	d	INSCRIBED CIRCLE
11,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
○	●
⊖	⊕
⊕	⊖

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	STAINLESS STEEL	M	○	○	○					⊖	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊕
	CAST IRON	K	●	○	●					⊖	●							
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S	○		○					⊖	⊕							
	HARDENED STEEL	H																

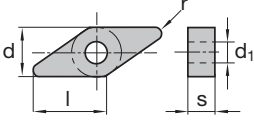
Machining Types	SECONDARY USE	PRIMARY USE	CONTINUOUS CUTTING
○	●	●	●
⊖	⊖	⊖	⊖
⊕	⊕	⊕	⊕

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Steel Groupe		
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170			
	VCMT 110302-M10						●								0,05 - 0,15	0,4 - 1,5
	VCMT 110304-M10						●								0,08 - 0,20	0,4 - 1,5
	VCMT 110308-M10									●	●				0,12 - 0,25	0,5 - 1,5
	VCMT 110304-MF7			●			●								0,08 - 0,20	0,4 - 1,5
	VCGT 1103005-MF17		●			●									0,02 - 0,06	0,5 - 1,5
	VCGT 110301-MF17		●			●									0,02 - 0,06	0,5 - 1,5
	VCGT 110302-MF17		●			●									0,05 - 0,12	0,5 - 2,0
	VCGT 110304-MF17		●			●									0,08 - 0,25	0,6 - 2,5
	VCGT 110308-MF17		●			●									0,10 - 0,35	0,8 - 3,0
	VCGT 110304-MF19		●			●									0,08 - 0,25	0,6 - 2,5
	VCGT 110308-MF19					●									0,10 - 0,35	0,8 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	VC 1103	35°	STEEL
		DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
11,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P												
	STAINLESS STEEL	M												
	CAST IRON	K												
	NON-FERROUS METAL	N												
	EXOTIC ALLOY	S												
	HARDENED STEEL	H												

Machining Types	
○	●
⊕	⊖
⊗	⊙

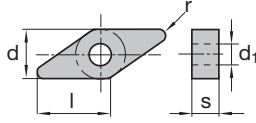
CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY ↓	DESIGNATION ↓	MACHINING MATERIAL GROUPE →												Steel Groupe					
		VC (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE ↓	AP (MM) DEPTH OF CUT ↓				
		GRADE →																	
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1	P1,2	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	
F 	VCMT 110302-F			●				●										0,05 - 0,2	0,25 - 2,0
	VCMT 110304-F			●				●										0,05 - 0,2	0,25 - 2,0
F10 	VCMT 110302-F10		●			●												0,04 - 0,12	0,1 - 1,0
	VCMT 110304-F10		●			●												0,05 - 0,16	0,1 - 1,5
F12 	VCGT 1103005-F12	●			●													0,02 - 0,06	0,1 - 1,5
	VCGT 110301-F12	●			●													0,02 - 0,06	0,1 - 1,5
	VCGT 110302-F12	●			●													0,05 - 0,12	0,2 - 2,0
	VCGT 110304-F12	●			●													0,08 - 0,25	0,2 - 2,5
W1 	VCGT 110302-W1	●																0,10 - 0,30	0,3 - 3,0
	VCGT 110304-W1	●																0,12 - 0,40	0,5 - 4,0
	VCGT 110308-W1	●																0,15 - 0,50	0,7 - 4,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE VC 1303	35°	STEEL
	DIAMOND	
	7° POSITIVE	

7,94	d	INSCRIBED CIRCLE
13,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS


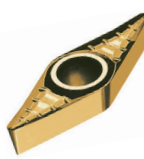
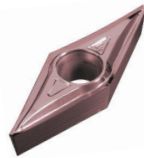


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	MATERIAL		Tolerance Classes												Machining Types		
	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●
STAINLESS STEEL	M	○	○	○					○	○	○	○	○	○	○	○	○
CAST IRON	K	●		○	●				○	○					○	○	
NON-FERROUS METAL	N																
EXOTIC ALLOY	S	○		○					○	○							
HARDENED STEEL	H																

○	●	CONTINUOUS CUTTING
○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING

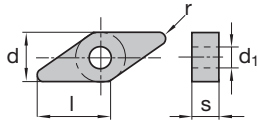
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groupe			
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170			
MF17 	VCGT 1303005-MF17	●													0,02 - 0,06	0,5 - 1,5
	VCGT 130301-MF17	●													0,02 - 0,06	0,5 - 1,5
	VCGT 130302-MF17	●			●										0,05 - 0,12	0,5 - 2,0
	VCGT 130304-MF17	●			●										0,08 - 0,25	0,6 - 3,0
	VCGT 130308-MF17	●			●										0,08 - 0,25	0,6 - 3,0
MF19 	VCGT 130304-MF19	●												0,08 - 0,25	0,6 - 3,0	
	VCGT 130308-MF19				●									0,08 - 0,25	0,6 - 3,0	
F12 	VCGT 130301-F12	●			●									0,05 - 0,12	0,2 - 2,0	
	VCGT 130302-F12	●			●									0,05 - 0,12	0,2 - 2,0	
	VCGT 130304-F12	●			●									0,08 - 0,25	0,2 - 2,5	

CARBIDE
VC 1604

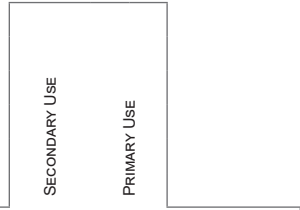
35°
DIAMOND
7° POSITIVE

STEEL

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS

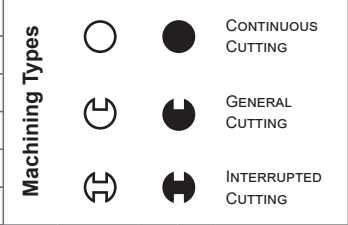


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	



MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

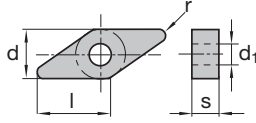


GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groupe					
			VC (M/MIN) CUTTING SPEED →		P1,2		P1,2,3		P1,2,3		P4		P1,2,3		P1,2,3		F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
M	VCMT 160404-M					●											0,16 - 0,44	0,5 - 5,0
	VCMT 160408-M					●											0,16 - 0,44	0,5 - 5,0
M10	VCMT 160404-M10				●					●					●		0,08 - 0,20	0,4 - 2,0
	VCMT 160408-M10									●					●		0,12 - 0,30	0,5 - 2,0
	VCMT 160412-M10															●	0,12 - 0,32	0,5 - 2,0
MF7	VCMT 160404-MF7				●						●						0,08 - 0,20	0,4 - 2,0
	VCMT 160408-MF7										●						0,12 - 0,30	0,5 - 2,0
MF17	VCGT 160401-MF17		●													●	0,02 - 0,06	0,5 - 1,5
	VCGT 160402-MF17		●													●	0,05 - 0,12	0,2 - 2,0
	VCGT 160404-MF17		●													●	0,08 - 0,25	0,6 - 3,5
	VCGT 160408-MF17		●													●	0,10 - 0,35	0,8 - 3,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **VC** **1604** **35°**
DIAMOND
7° POSITIVE **STEEL**

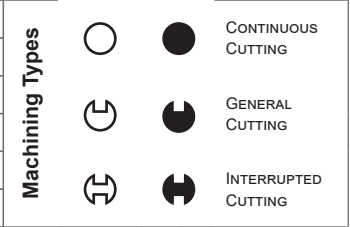
9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	



MACHINING MATERIAL	STEEL	P	● ● ● ● ● ● ● ● ● ● ● ● ● ●											
	STAINLESS STEEL	M	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○											
	CAST IRON	K	● ○ ● ● ● ● ● ● ● ● ● ● ● ● ● ●											
	NON-FERROUS METAL	N	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○											
	EXOTIC ALLOY	S	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○											
	HARDENED STEEL	H	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○											

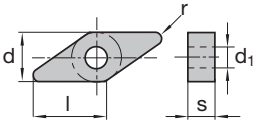


GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe		
		P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
		Vc (M/MIN) CUTTING SPEED →														
		GRADE →														
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
MF19 	VCGT 160404-MF19	●			●										0,08 - 0,25	0,6 - 3,5
	VCGT 160408-MF19	●			●										0,10 - 0,35	0,8 - 3,5
	VCGT 160412-MF19	●			●										0,10 - 0,45	1,0 - 3,5
F 	VCMT 160404-F			●				●							0,05 - 0,2	0,25 - 2,0
	VCMT 160408-F			●				●							0,05 - 0,2	0,25 - 2,0
F10 	VCMT 160404-F10		●			●									0,05 - 0,16	0,1 - 1,5
F12 	VCGT 160401-F12	●			●										0,05 - 0,12	0,2 - 2,0
	VCGT 160402-F12	●			●										0,05 - 0,12	0,2 - 2,0
	VCGT 160404-F12	●			●										0,08 - 0,25	0,2 - 2,5
	VCGT 160408-F12	●			●										0,10 - 0,30	0,3 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	VC 1604	35°	STEEL
		DIAMOND	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

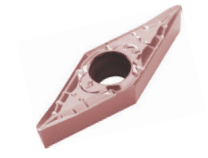
SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P															
	STAINLESS STEEL	M															
	CAST IRON	K															
	NON-FERROUS METAL	N															
	EXOTIC ALLOY	S															
	HARDENED STEEL	H															

Machining Types	
○	●
⊖	⊖
⊕	⊕

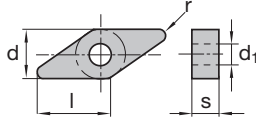
○ ● CONTINUOUS CUTTING
 ⊖ ⊖ GENERAL CUTTING
 ⊕ ⊕ INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe	
			VC (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3		
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
W1	VC GT 160404-W1	●													0,12 - 0,40	0,5 - 4,0
	VC GT 160408-W1	●													0,15 - 0,50	0,7 - 4,0



CARBIDE	VC	35°	STEEL
	2205	DIAMOND	
		7° POSITIVE	

12,70	d	INSCRIBED CIRCLE
22,10	l	CUTTING EDGE LENGTH
5,56	s	THICKNESS



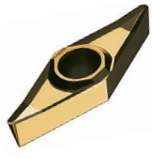

Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○														
	CAST IRON	K	●		○	●													
	NON-FERROUS METAL	N																	
	EXOTIC ALLOY	S	○		○														
	HARDENED STEEL	H																	

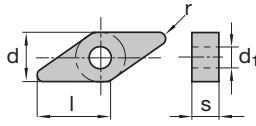
Machining Types	
○	●
○	●
○	●

CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe		
			VC (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
MF17 	VC GT 220520-MF17		●													0,10 - 0,45	1,0 - 3,5
	VC GT 220530-MF17		●			●										0,10 - 0,45	1,0 - 3,5
MF19 	VC GT 220530-MF19					●										0,10 - 0,45	1,0 - 3,5

CARBIDE	VN 1604	35°	STEEL
		DIAMOND	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

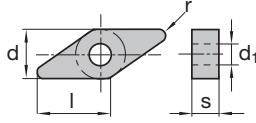
MACHINING MATERIAL	STEEL	P																			
	STAINLESS STEEL	M	○	○	○																
	CAST IRON	K	●	○	●																
	NON-FERROUS METAL	N																			
	EXOTIC ALLOY	S	○		○																
	HARDENED STEEL	H																			

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →												Steel Groupe		
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
M	VNMG 160408-M				●				●				●			0,16 - 0,4	0,8 - 5,0
	VNMG 160412-M				●				●				●			0,16 - 0,4	0,8 - 5,0
M7	VNMG 160404-M7							●								0,10 - 0,18	0,5 - 2,0
MF	VNMG 160408-MF				●				●							0,08 - 0,32	0,5 - 4,0
F	VNMG 160404-F				●				●							0,05 - 0,2	0,12 - 1,9
	VNMG 160408-F				●				●							0,05 - 0,2	0,12 - 1,9

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	VN 1604	35°	STEEL
		DIAMOND	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	HARDENED STEEL	H	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Machining Types

○	●	CONTINUOUS CUTTING
⊖	⊖	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING

SECONDARY USE (Left column icons)
PRIMARY USE (Right column icons)

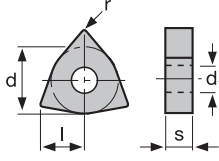
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Steel Groupe		
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
F5	VNMG 160404-F5	●	140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170	0,05 - 0,12	0,2 - 1,0
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1		

VC (M/MIN) CUTTING SPEED →

Steel Groupe:
P1 - Unalloyed
P2 - Low alloyed
P3 - High alloyed / Tool steel
P4 - P1,2,3 up to 1000 N/mm²

CARBIDE	WC	80°	STEEL
	0201	TRIGON	
		7° POSITIVE	

3,97	d	INSCRIBED CIRCLE
2,70	l	CUTTING EDGE LENGTH
1,59	s	THICKNESS




Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	STAINLESS STEEL	M	○		○	○				⊕	⊕								
	CAST IRON	K	●		○	●				⊕	●								
	NON-FERROUS METAL	N																	
	EXOTIC ALLOY	S	○			○				⊕	⊕								
	HARDENED STEEL	H																	

Machining Types	
○	●
⊕	⊖
⊕	⊖

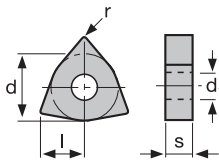
SECONDARY USE PRIMARY USE

CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Steel Groupe			
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
	WCGT 0201005-MF17				●										0,05 - 0,12	0,5 - 1,5
	WCGT 020101-MF17				●										0,05 - 0,12	0,5 - 1,5
	WCGT 020102-MF17				●										0,05 - 0,12	0,5 - 1,5

CARBIDE	WC	80°	STEEL
	0302	TRIGON	
		7° POSITIVE	

5,56	d	INSCRIBED CIRCLE
3,80	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

Machining Types	
○	●
⊖	⊖
⊕	⊕


SECONDARY USE PRIMARY USE

○ ● CONTINUOUS CUTTING

⊖ ⊖ GENERAL CUTTING

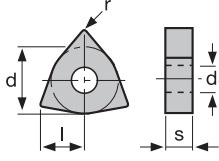
⊕ ⊕ INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●				⊖	⊖								
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S	○			○				⊖	⊕							
	HARDENED STEEL	H																

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe			
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170	P1 - Unalloyed	P2 - Low alloyed	P3 - High alloyed / Tool steel	P4 - P1,2,3 up to 1000 N/mm²	
MF17	WCGT 030202-MF17		●														0,05 - 0,12	0,5 - 1,5
	WCGT 030204-MF17		●			●											0,08 - 0,20	0,6 - 1,5

CARBIDE	WC 0402	80°	STEEL
		TRIGON	
		7° POSITIVE	


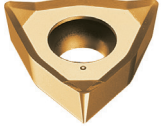

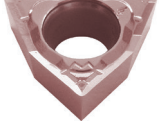
6,35	d INSCRIBED CIRCLE
4,30	l CUTTING EDGE LENGTH
2,38	s THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

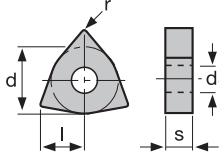
MACHINING MATERIAL	STEEL	P													Machining Types												
	STAINLESS STEEL	M	●	●	●	●	●	●	●	●	●	●	●	●		●	○	<table border="0"> <tr> <td>○</td><td>●</td><td>CONTINUOUS CUTTING</td> </tr> <tr> <td>⊖</td><td>⊖</td><td>GENERAL CUTTING</td> </tr> <tr> <td>⊕</td><td>⊕</td><td>INTERRUPTED CUTTING</td> </tr> </table>	○	●	CONTINUOUS CUTTING	⊖	⊖	GENERAL CUTTING	⊕	⊕	INTERRUPTED CUTTING
	○	●	CONTINUOUS CUTTING																								
	⊖	⊖	GENERAL CUTTING																								
	⊕	⊕	INTERRUPTED CUTTING																								
	CAST IRON	K	●		○	●			⊖	⊖						⊕											
NON-FERROUS METAL	N																										
EXOTIC ALLOY	S	○		○					⊖	⊕																	
HARDENED STEEL	H																										

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →												Steel Groupe		
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3				
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
M10	WCMT 040204-M10											●				0,08 - 0,25	0,4 - 2,0
																	
MF17	WCGT 040202-MF17					●										0,05 - 0,12	0,5 - 2,0
	WCGT 040204-MF17		●													0,08 - 0,25	0,6 - 2,5
F12	WCGT 040202-F12		●		●											0,05 - 0,12	0,2 - 2,0
	WCGT 040204-F12		●													0,08 - 0,25	0,2 - 2,5
W1	WCGT 040204-W1		●													0,08 - 0,20	0,2 - 1,2
																	

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	WC	80°	STEEL
	06T3	TRIGON	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
6,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS




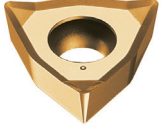

Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P															
	STAINLESS STEEL	M															
	CAST IRON	K															
	NON-FERROUS METAL	N															
	EXOTIC ALLOY	S															
	HARDENED STEEL	H															

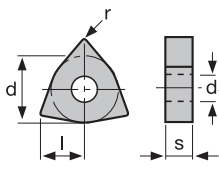
Machining Types	
○	●
⊖	⊖
⊕	⊕

○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ⊖ INTERRUPTED CUTTING
 ⊕

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →												Steel Groupe		
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3				
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
M10 	WCMT 06T304-M10						●						●			0,08 - 0,25	0,4 - 2,5
	WCMT 06T308-M10												●			0,12 - 0,32	0,5 - 2,5
MF17 	WCGT 06T302-MF17		●			●										0,05 - 0,12	0,6 - 2,0
	WCGT 06T304-MF17		●			●										0,08 - 0,25	0,6 - 3,0
F12 	WCGT 06T304-F12		●			●										0,08 - 0,25	0,20 - 2,5

CARBIDE	WC	80°	STEEL
	0804	TRIGON	
		7° POSITIVE	

12,70	d	INSCRIBED CIRCLE
8,72	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS


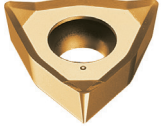

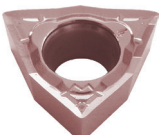


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

SECONDARY USE	PRIMARY USE
○	●
⊖	⊖
⊕	⊕

MACHINING MATERIAL	STEEL	P															
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●				⊖	⊖							
	NON-FERROUS METAL	N															
	EXOTIC ALLOY	S	○		○				⊖	⊕							
	HARDENED STEEL	H															

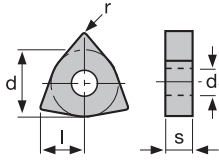
Machining Types	SECONDARY USE	PRIMARY USE	
○	●		CONTINUOUS CUTTING
⊖	⊖		GENERAL CUTTING
⊕	⊕		INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe	
			VC (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3			
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
M10 	WCMT 080404-M10										●				0,08 - 0,25	0,5 - 3,0
	WCMT 080408-M10										●				0,10 - 0,35	0,6 - 3,0
MF17 	WCGT 080404-MF17	●			●										0,08 - 0,25	0,6 - 4,0
	WCGT 080408-MF17	●													0,10 - 0,35	0,8 - 4,0
MF19 	WCGT 080404-MF19					●									0,08 - 0,25	0,6 - 4,0
W1 	WCGT 080404-W1	●													0,12 - 0,40	0,5 - 4,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	WN	80°	STEEL
	0604	TRIGON	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
6,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

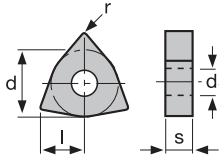
Machining Types	
○	●
⊖	⊖
⊕	⊕

○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ⊖ INTERRUPTED CUTTING
 ⊕

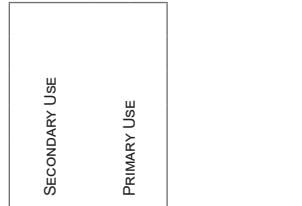
GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →											Steel Groupe	
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			140-320	70-400	80-360	120-280	70-350	70-300	50-250	80-240	50-230	70-270	60-170		
M 	WNMG 060408-M				●				●				●	0,16 - 0,4	0,8 - 5,0
M7 	WNMG 060404-M7							●	●					0,10 - 0,18	0,5 - 2,0
	WNMG 060408-M7							●						0,15 - 0,25	0,8 - 2,5
MF 	WNMG 060404-MF				●				●				●	0,08 - 0,32	0,5 - 4,0
	WNMG 060408-MF				●				●					0,08 - 0,32	0,5 - 4,0

CARBIDE	WN 0804	80°	<h1>STEEL</h1>
		TRIGON	
		0° NEGATIVE	

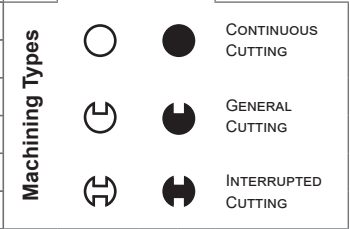
12,70	d	INSCRIBED CIRCLE
8,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13



MACHINING MATERIAL	STEEL	P																	
	STAINLESS STEEL	M	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	CAST IRON	K	●	○	●				○	○									
	NON-FERROUS METAL	N																	
	EXOTIC ALLOY	S	○			○					○	○							
	HARDENED STEEL	H																	

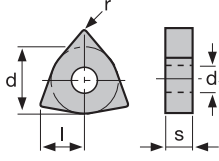


GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Steel Groupe		
		Vc (m/min) CUTTING SPEED →												F (mm/rev) FEED RATE ↓	AP (mm) DEPTH OF CUT ↓	
		GRADE →														
		A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1				
R7	WNMG 080408-R7					●	●				●				0,20 - 0,40	0,8 - 6,0
	WNMG 080412-R7					●	●				●				0,25 - 0,60	1,0 - 6,0
MR	WNMG 080408-MR			●				●				●			0,32 - 0,80	1,2 - 8,0
	WNMG 080412-MR			●				●				●			0,32 - 0,80	1,2 - 8,0
	WNMG 080416-MR			●				●				●			0,32 - 0,80	1,2 - 8,0
MR1	WNMG 080408-MR1			●				●							0,19 - 0,80	1,4 - 4,0
	WNMG 080412-MR1			●				●							0,19 - 0,80	1,4 - 4,0
M	WNMG 080408-M			●				●				●			0,16 - 0,40	0,8 - 5,0
	WNMG 080412-M			●				●				●			0,16 - 0,40	0,8 - 5,0
	WNMG 080416-M			●				●							0,16 - 0,40	0,8 - 5,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	WN 0804	80°	STEEL
		TRIGON	
		0° NEGATIVE	

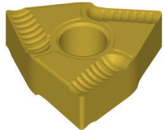


12,70	d	INSCRIBED CIRCLE
8,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	MATERIAL	GRADE	Tolerance Classes												Machining Types				
			●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	○
STEEL	P		●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	○
STAINLESS STEEL	M		○	○	○					○	○	○	○	○	○	○	○	○	○
CAST IRON	K		●	○	●					○	○			○	○	○	○	○	
NON-FERROUS METAL	N																		
EXOTIC ALLOY	S		○		○									○	○				
HARDENED STEEL	H																		

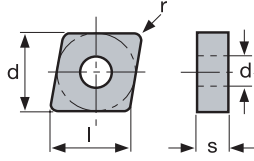
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Steel Groupe	
			P1,2	P1,2,3	P1,2,3	P1,2	P1,2,3	P4	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	P1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			A22-A2	A22-F2	A31-A1	A32-B2	A42-G2	A42-I2	A51-B1	A52-C2	A72-D2	A72-H2	A81-C1			
M1 	WNMG 080404 ER-M1				●				●				●		0,2 - 0,45	1,0 - 3,2
	WNMG 080408 EL-M1				●				●				●		0,2 - 0,45	1,0 - 3,2
	WNMG 080408 ER-M1				●				●				●		0,2 - 0,45	1,0 - 3,2
	WNMG 080412 EL-M1					●			●						0,2 - 0,45	1,0 - 3,2
	WNMG 080412 ER-M1					●			●						0,2 - 0,45	1,0 - 3,2
M7 	WNMG 080404-M7							●							0,10 - 0,20	0,5 - 3,0
	WNMG 080408-M7							●	●						0,15 - 0,32	0,8 - 3,0
	WNMG 080412-M7			●				●	●						0,15 - 0,35	0,8 - 3,5
MF 	WNMG 080404-MF				●				●				●		0,08 - 0,32	0,5 - 4,0
	WNMG 080408-MF				●				●				●		0,08 - 0,32	0,5 - 4,0

CARBIDE
CC
0602

80°
DIAMOND
7° POSITIVE

STAINLESS STEEL

6,35	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1
STEEL	P	○	●	○	○	○	○	○	○	○	○	○	○
STAINLESS STEEL	M	●	●	●	●	●	●	●	●	●	●	●	●
CAST IRON	K	○	○										
NON-FERROUS METAL	N	○	○										
EXOTIC ALLOY	S	●	●										
HARDENED STEEL	H	○	○										

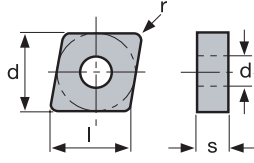
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
			M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			Vc (M/MIN) CUTTING SPEED →													
			60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180		
M1	CCMT 060202-M1				●			●						0,13 - 0,63	1,0 - 4,0	
	CCMT 060204-M1			●			●							0,13 - 0,63	1,0 - 4,0	
E-M1	CCGT 060204 EL-M1											●		0,13 - 0,63	1,0 - 4,0	
	CCGT 060204 ER-M1											●		0,13 - 0,63	1,0 - 4,0	
	CCGT 060208 EL-M1											●		0,13 - 0,63	1,0 - 4,0	
	CCGT 060208 ER-M1											●		0,13 - 0,63	1,0 - 4,0	
M10	CCMT 060202-M10					●			●					0,05 - 0,12	0,3 - 2,0	
	CCMT 060204-M10					●			●					0,08 - 0,20	0,4 - 2,0	
MF7	CCMT 060202-MF7						●		●					0,05 - 0,12	0,3 - 2,0	
	CCMT 060204-MF7	●					●		●					0,08 - 0,20	0,4 - 2,0	

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **CC 0602** 80°
DIAMOND
7° POSITIVE

STAINLESS STEEL

6,35	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	○			○		○							
	NON-FERROUS METAL	N	○	○			○									
	EXOTIC ALLOY	S	●	●			●		●			○				
	HARDENED STEEL	H	○	○			○									

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	CONTINUOUS CUTTING
	○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING	

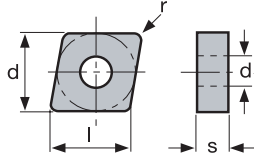
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
		Vc (M/MIN) CUTTING SPEED →														
		GRADE →														
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
MF10 	CCGT 060201-MF10				●										0,02 - 0,06	0,1 - 0,5
	CCGT 060202-MF10				●										0,04 - 0,10	0,1 - 0,6
	CCGT 060204-MF10				●										0,06 - 0,12	0,2 - 0,6
MF15 	CCGT 0602005-MF15				●										0,02 - 0,06	0,1 - 0,5
	CCGT 060201-MF15				●										0,02 - 0,06	0,1 - 0,5
	CCGT 060202-MF15				●										0,04 - 0,10	0,1 - 0,6
	CCGT 060204-MF15				●										0,06 - 0,12	0,2 - 0,6
F 	CCMT 060202-F						●						●		0,05 - 0,20	0,1 - 2,0
	CCMT 060204-F						●						●		0,05 - 0,20	0,1 - 2,0
F10 	CCMT 060202-F10	●				●			●						0,04 - 0,12	0,1 - 1,0
	CCMT 060204-F10	●				●			●						0,05 - 0,16	0,1 - 1,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **CC 09T3** 80°
DIAMOND
7° POSITIVE

STAINLESS STEEL


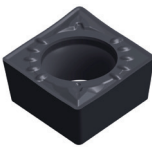
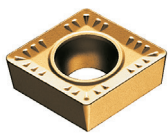
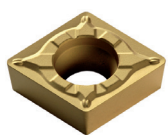
9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	○
⊖	⊖	⊖	GENERAL CUTTING
⊕	⊕	⊕	INTERRUPTED CUTTING

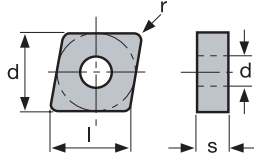
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
		Vc (M/MIN) CUTTING SPEED →														
		GRADE →														
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
MR1 	CCMT 09T304-MR1													●	0,20 - 0,50	0,5 - 9,1
	CCMT 09T308-MR1														●	0,20 - 0,50
M1 	CCMT 09T304-M1			●			●								0,13 - 0,63	1,0 - 4,0
	CCMT 09T308-M1			●			●								0,13 - 0,63	1,0 - 4,0
M10 	CCMT 09T302-M10					●									0,05 - 0,12	0,3 - 2,0
	CCMT 09T304-M10					●			●						0,08 - 0,25	0,4 - 3,0
	CCMT 09T308-M10					●			●						0,12 - 0,32	0,5 - 3,0
MF7 	CCMT 09T302-MF7					●			●						0,05 - 0,12	0,3 - 2,0
	CCMT 09T304-MF7	●				●			●						0,08 - 0,25	0,4 - 3,0
	CCMT 09T308-MF7					●			●						0,12 - 0,32	0,5 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **CC 09T3** 80°
DIAMOND
7° POSITIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	○			○		○							
	NON-FERROUS METAL	N	○	○			○									
	EXOTIC ALLOY	S	●	●			●		●			○				
	HARDENED STEEL	H	○	○			○									

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	CONTINUOUS CUTTING
	○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING	

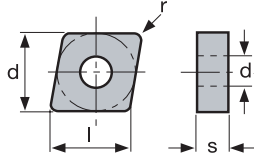
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
		Vc (M/MIN) CUTTING SPEED →														
		GRADE →														
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
MF10 	CCGT 09T301-MF10				●										0,02 - 0,06	0,1 - 0,5
	CCGT 09T302-MF10				●										0,04 - 0,10	0,1 - 1,0
	CCGT 09T304-MF10				●										0,06 - 0,12	0,2 - 1,0
MF15 	CCGT 09T3005-MF15				●										0,02 - 0,06	0,1 - 0,5
	CCGT 09T301-MF15				●										0,02 - 0,06	0,1 - 0,5
	CCGT 09T302-MF15				●										0,04 - 0,10	0,1 - 1,0
	CCGT 09T304-MF15				●										0,06 - 0,12	0,2 - 1,0
F 	CCMT 09T304-F			●		●					●				0,05 - 0,20	0,1 - 2,0
F10 	CCMT 09T302-F10	●				●			●						0,04 - 0,12	0,1 - 1,0
	CCMT 09T304-F10	●				●			●						0,05 - 0,16	0,1 - 1,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **CC 1204** 80°
DIAMOND
7° POSITIVE

STAINLESS STEEL

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

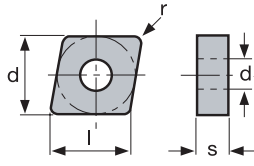
Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
		GENERAL CUTTING	
		INTERRUPTED CUTTING	

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
			B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
MR1 	CCMT 120404-MR1															0,20 - 0,50	0,5 - 9,1
	CCMT 120408-MR1															0,20 - 0,50	0,5 - 9,1
M1 	CCMT 120404-M1							●								0,13 - 0,63	1,0 - 4,0
	CCMT 120408-M1							●								0,13 - 0,63	1,0 - 4,0
E-M1 	CCGT 120408 ER-M1												●			0,13 - 0,63	1,0 - 4,0
	CCGT 120412 EL-M1												●			0,13 - 0,63	1,0 - 4,0
M10 	CCMT 120404-M10						●			●						0,12 - 0,25	0,4 - 3,5
	CCMT 120408-M10						●			●						0,12 - 0,32	0,5 - 3,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **CC** 1204 80° DIAMOND 7° POSITIVE **STAINLESS STEEL**

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

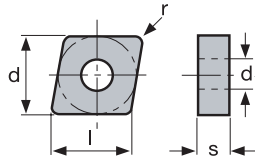
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
			60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180			
			B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
MF7 	CCMT 120404-MF7									●						0,12 - 0,25	0,4 - 3,5
	CCMT 120408-MF7						●			●						0,12 - 0,32	0,5 - 3,5
F6 	CCXT 120404-F6					●										0,08 - 0,25	0,6 - 5,0

CARBIDE
CN
0903

80°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes		E		G		H		M		U	
○	●	○	○	⊕	⊕	○	⊕	⊕	⊕	⊕	⊕
●	●	●	●	⊕	⊕	○	⊕	⊕	⊕	⊕	⊕
○	○			⊕		○	⊕				
○	○			⊕			⊕				
●	●			⊕		●	⊕	⊕			
○	○			⊕			⊕				

Machining Types

○	●	CONTINUOUS CUTTING
⊕	⊕	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING

SECONDARY USE (○)
PRIMARY USE (●)

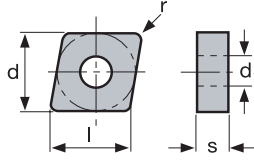
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →													Stainless steel Groupe		
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
MF	CNMG 090304-MF			●			●						●			0,10 - 0,30	0,5 - 3,5
		60-180	60-160	150-230	100-200	60-160	100-200	90-140	70-150	120-180	100-170	70-180					
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3					
		60-180	60-160	150-230	100-200	60-160	100-200	90-140	70-150	120-180	100-170	70-180					

Stainless steel Groupe
M1 - Ferritic
M2 - Martensitic
M3 - Austenitic
(Hardened - reduce 30%)

CARBIDE **CN 1204** 80°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	○			○									
	NON-FERROUS METAL	N	○	○			○									
	EXOTIC ALLOY	S	●	●			●		●							
	HARDENED STEEL	H	○	○			○									

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	CONTINUOUS CUTTING
	○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING	

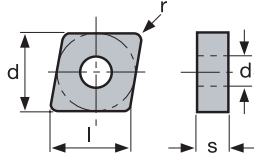
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
			M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180		
			B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
R8 	CNMM 120408-R8									●					0,30 - 0,50	0,8 - 7,0
	CNMM 120412-R8									●					0,35 - 0,70	1,2 - 7,0
MR 	CNMG 120408-MR							●				●	●		0,35 - 0,60	1,2 - 7,2
	CNMG 120412-MR							●				●	●		0,35 - 0,60	1,2 - 7,2
M 	CNMG 120408-M												●		0,16 - 0,40	1,0 - 5,5
	CNMG 120412-M												●		0,16 - 0,40	1,0 - 5,5
M1 	CNMG 120408-M1			●				●						●	0,16 - 0,40	1,0 - 4,0
	CNMG 120412-M1			●				●						●	0,16 - 0,40	1,0 - 4,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **CN 1204** 80°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	○												
	NON-FERROUS METAL	N	○	○												
	EXOTIC ALLOY	S	●	●			●	●								
	HARDENED STEEL	H	○	○												
				○	○	○	○	○	○	○	○	○	○	○	○	○

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	CONTINUOUS CUTTING
	⊖	⊕	GENERAL CUTTING
	⊕	⊖	INTERRUPTED CUTTING

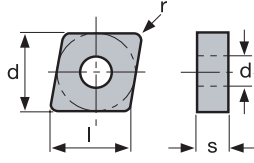
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
M7 	CNMG 120404-M7					●			●						0,10 - 0,20	0,5 - 3,0
	CNMG 120408-M7					●			●						0,15 - 0,32	0,8 - 3,0
	CNMG 120412-M7								●						0,15 - 0,35	0,8 - 3,5
MF 	CNMG 120404-MF			●			●						●	0,10 - 0,30	0,5 - 3,5	
	CNMG 120408-MF			●			●						●	0,10 - 0,30	0,5 - 3,5	
	CNMG 120412-MF			●			●						●	0,10 - 0,30	0,5 - 3,5	
F4 	CNMG 120404-F4	●				●			●					0,08 - 0,17	0,4 - 1,5	
	CNMG 120408-F4	●				●			●					0,10 - 0,20	0,5 - 2,0	
F14 	CNGP 120402-F14								●					0,05 - 0,25	0,03 - 3,0	
	CNGP 120404-F14								●					0,05 - 0,25	0,05 - 3,5	
	CNGP 120408-F14								●					0,05 - 0,25	0,05 - 4,0	

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **CN 1606** 80°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

15,88	d	INSCRIBED CIRCLE
16,10	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,15	± 0,10	± 0,13	± 0,13
U	± 0,27	± 0,18	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

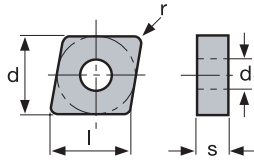
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Stainless steel Groupe				
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
			M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3			
			B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1				
R8	CNMM 160612-R8									●							0,35 - 0,70	1,2 - 9,0
MR	CNMG 160612-MR							●				●		●			0,35 - 0,60	1,2 - 7,2
	CNMG 160616-MR							●						●			0,35 - 0,60	1,2 - 7,2
M	CNMG 160612-M											●					0,16 - 0,40	1,0 - 5,5
M1	CNMG 160612-M1			●				●						●			0,16 - 0,40	1,0 - 4,0
	CNMG 160616-M1			●				●						●			0,16 - 0,40	1,0 - 4,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **CN 1606** **80°**
DIAMOND
0° NEGATIVE

STAINLESS STEEL

15,88	d	INSCRIBED CIRCLE
16,10	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,15	± 0,10	± 0,13	± 0,13
U	± 0,27	± 0,18	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes	CLASS		m		d		s	
	E	○	●	○	○	⊕	⊕	○
G	●	●	●	●	⊕	⊕	⊕	
H	○	○			⊕			
M	○	○			⊕			
U	●	●	●	●	⊕	⊕	⊕	

Machining Types

○	●	CONTINUOUS CUTTING
⊕	⊕	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING

SECONDARY USE (○) PRIMARY USE (●)

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe	
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
M7	CNMG 160608-M7	B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	0,15 - 0,35	0,8 - 4,5
		60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180		

Vc (M/MIN) CUTTING SPEED →

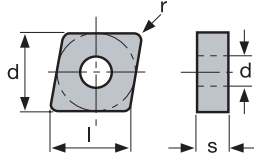
GRADE →

Stainless steel Groupe:
M1 - Ferritic
M2 - Martensitic
M3 - Austenitic
(Hardened - reduce 30%)

CARBIDE **CN 1906** 80°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

19,05	d	INSCRIBED CIRCLE
19,30	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,15	± 0,10	± 0,13	
U	± 0,27	± 0,18	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
R7 	CNMG 190612-R7						●			●					0,25 - 0,65	1,2 - 10,0
	CNMG 190616-R7											●			0,35 - 0,80	1,6 - 10,0
R8 	CNMM 190616-R8									●					0,40 - 0,90	1,6 - 10,0
MR 	CNMG 190612-MR							●				●	●		0,35 - 0,60	1,2 - 7,2
M1 	CNMG 190612-M1			●									●		0,16 - 0,40	1,0 - 4,0
	CNMG 190616-M1			●									●		0,16 - 0,40	1,0 - 4,0

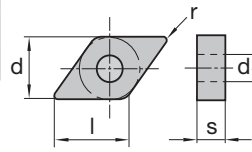
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
DC
0702

55°
DIAMOND
7° POSITIVE

STAINLESS STEEL

6,35	d	INSCRIBED CIRCLE
7,70	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
○	●	CONTINUOUS CUTTING
⊖	⊖	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes		CLASS		m		d		s	
○	●	○	○	⊖	⊖	○	⊕	⊕	⊕
●	●	●	●	⊖	⊖	●	⊕	⊕	⊕
○	○			⊖		○	⊕		
○	○			⊖			⊕		
●	●			⊖		●	⊕	⊖	
○	○			⊖			⊕		

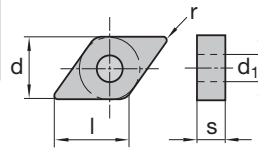
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
			M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
		Vc (M/MIN) CUTTING SPEED →															
		GRADE →															
		DESIGNATION		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
M1	DCMT 070204-M1												●			0,13 - 0,63	1,0 - 4,0
M11	DCMT 070202-M11	●						●			●					0,08 - 0,15	0,40 - 1,5
	DCMT 070204-M11	●					●			●						0,08 - 0,22	0,40 - 2,5
MF10	DCGT 0702008-MF10						●									0,02 - 0,06	0,1 - 0,5
	DCGT 0702015-MF10						●									0,02 - 0,06	0,1 - 0,5
	DCGT 070201-MF10						●									0,02 - 0,06	0,1 - 0,5
	DCGT 070202-MF10						●									0,04 - 0,10	0,1 - 0,6
	DCGT 070204-MF10						●									0,06 - 0,18	0,3 - 2,0
MF15	DCGT 0702005-MF15						●									0,02 - 0,06	0,1 - 0,5
	DCGT 0702008-MF15						●									0,02 - 0,06	0,1 - 0,5
	DCGT 0702015-MF15						●									0,02 - 0,06	0,1 - 0,5
	DCGT 070201-MF15						●									0,02 - 0,06	0,1 - 0,5
	DCGT 070202-MF15						●									0,04 - 0,10	0,1 - 0,6
	DCGT 070204-MF15						●									0,06 - 0,18	0,3 - 2,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **DC 0702** 55°
DIAMOND
7° POSITIVE

STAINLESS STEEL

6,35	d	INSCRIBED CIRCLE
7,70	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

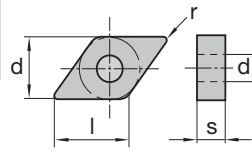
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
		Vc (M/MIN) CUTTING SPEED →													
		GRADE →													
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
F 	DCMT 070202-F			●			●					●		0,05 - 0,20	0,1 - 2,0
	DCMT 070204-F						●						●	0,05 - 0,20	0,1 - 2,0
F10 	DCMT 070202-F10	●				●			●					0,04 - 0,12	0,10 - 1,0
	DCMT 070204-F10	●				●			●					0,05 - 0,16	0,10 - 1,5
F12 	DCGT 0702008-F12				●									0,02 - 0,06	0,1 - 1,5
	DCGT 0702015-F12				●									0,05 - 0,12	0,2 - 2,0
	DCGT 070202-F12				●									0,05 - 0,12	0,2 - 2,0
	DCGT 070204-F12				●									0,08 - 0,25	0,2 - 2,5

CARBIDE
DC
11T3

55°
DIAMOND
7° POSITIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	SECONDARY USE		PRIMARY USE	
				GENERAL CUTTING
				INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes		CLASS		m		d		s	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
		Vc (M/MIN) CUTTING SPEED →														
		GRADE →														
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
MR1 	DCMT 11T304-MR1													●	0,20 - 0,50	0,5 - 9,1
	DCMT 11T308-MR1													●	0,20 - 0,50	0,5 - 9,1
M1 	DCMT 11T304-M1			●			●								0,13 - 0,63	1,0 - 4,0
	DCMT 11T308-M1			●			●								0,13 - 0,63	1,0 - 4,0
E-M1 	DCGT 11T304 EL-M1													●	0,13 - 0,63	1,0 - 4,0
	DCGT 11T304 ER-M1													●	0,13 - 0,63	1,0 - 4,0
	DCGT 11T308 EL-M1													●	0,13 - 0,63	1,0 - 4,0
	DCGT 11T308 ER-M1													●	0,13 - 0,63	1,0 - 4,0
M11 	DCMT 11T302-M11	●				●			●						0,08 - 0,15	0,40 - 1,5
	DCMT 11T304-M11	●				●			●						0,08 - 0,22	0,40 - 2,5

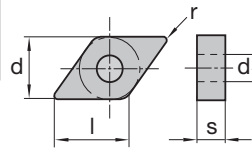
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
DC
11T3

55°
DIAMOND
7° POSITIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	CONTINUOUS CUTTING
	◐	◑	GENERAL CUTTING
	◒	◓	INTERRUPTED CUTTING
	◔	◕	
	◖	◗	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
Vc (M/MIN) CUTTING SPEED →	GRADE →	B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
		60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180		
MF10	DCGT 11T3008-MF10			●										0,02 - 0,06	0,1 - 0,5
	DCGT 11T3015-MF10			●										0,02 - 0,06	0,1 - 0,5
	DCGT 11T301-MF10			●										0,02 - 0,06	0,1 - 0,5
	DCGT 11T302-MF10			●										0,04 - 0,10	0,1 - 0,6
	DCGT 11T304-MF10			●										0,08 - 0,20	0,3 - 2,0
MF15	DCGT 11T3005-MF15			●										0,02 - 0,06	0,1 - 0,5
	DCGT 11T3008-MF15			●										0,02 - 0,06	0,1 - 0,5
	DCGT 11T3015-MF15			●										0,02 - 0,06	0,1 - 0,5
	DCGT 11T301-MF15			●										0,02 - 0,06	0,1 - 0,5
	DCGT 11T302-MF15			●										0,04 - 0,10	0,1 - 0,6
	DCGT 11T304-MF15			●										0,08 - 0,20	0,3 - 2,0
F	DCMT 11T302-F		●			●				●				0,05 - 0,20	0,1 - 2,0
	DCMT 11T304-F					●						●		0,05 - 0,20	0,1 - 2,0
F10	DCMT 11T302-F10	●				●			●					0,04 - 0,12	0,10 - 1,0
	DCMT 11T304-F10	●				●			●					0,05 - 0,16	0,10 - 1,5

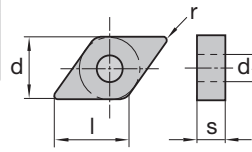
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
DC
11T3

55°
DIAMOND
7° POSITIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

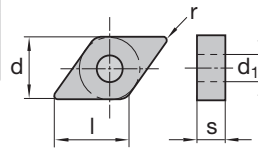
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
F11 	DCGT 11T3008-F11				●										0,02 - 0,06	0,1 - 1,5
	DCGT 11T3015-F11		●		●										0,05 - 0,12	0,2 - 2,0
	DCGT 11T301-F11		●												0,02 - 0,06	0,1 - 1,5
	DCGT 11T302-F11		●		●			●							0,05 - 0,12	0,2 - 2,0
	DCGT 11T304-F11		●		●			●							0,08 - 0,25	0,2 - 2,5
	DCGT 11T308-F11		●					●							0,10 - 0,30	0,3 - 3,0
F12 	DCGT 11T3008-F12				●									0,02 - 0,06	0,1 - 1,5	
	DCGT 11T3015-F12				●									0,05 - 0,12	0,2 - 2,0	
	DCGT 11T304-F12	●												0,08 - 0,25	0,2 - 2,5	
	DCGT 11T308-F12	●												0,10 - 0,30	0,3 - 3,0	
W1 	DCGT 11T308-W1		●											0,15 - 0,50	0,5 - 4,0	

Stainless steel Groupe
M1 - Ferritic
M2 - Martensitic
M3 - Austenitic
(Hardened - reduce 30%)

CARBIDE **DN 1104** 55°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1
STEEL	P	○	●	○	○	○	○	○	○	○	○	○	○
STAINLESS STEEL	M	●	●	●	●	●	●	●	●	●	●	●	●
CAST IRON	K	○	○										
NON-FERROUS METAL	N	○	○										
EXOTIC ALLOY	S	●	●										
HARDENED STEEL	H	○	○										

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe	
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →													
		GRADE →													
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
M	DNMG 110408-M										●			0,16 - 0,40	1,0 - 5,5
M1	DNMG 110404-M1						●							0,16 - 0,40	1,0 - 4,0
	DNMG 110408-M1						●							0,16 - 0,40	1,0 - 4,0
M7	DNMG 110404-M7								●					0,10 - 0,18	0,5 - 2,0
	DNMG 110408-M7								●					0,15 - 0,25	0,8 - 3,0
MF	DNMG 110404-MF		●			●				●				0,10 - 0,30	0,5 - 3,5
	DNMG 110408-MF					●								0,10 - 0,30	0,5 - 3,5

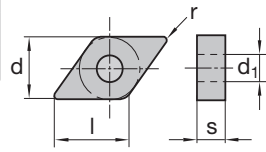
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
**DN
1104**

55°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

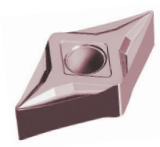
○	●	○	○	☉	☉	○		↻	☉	↻	↻		
●	●	●	●	☉	☉	●	↻	↻	☉	↻	↻		
○	○			☉		○		↻					
○	○			☉				↻					
●	●			☉		●		↻	☉				
○	○			☉				↻					

Machining Types

○	●	CONTINUOUS CUTTING
☉	☉	GENERAL CUTTING
↻	↻	INTERRUPTED CUTTING

SECONDARY USE (○) PRIMARY USE (●)

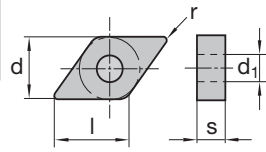
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →													
		GRADE →													
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
F14	DNGP 110402-F14						●							0,05 - 0,25	0,03 - 3,0
	DNGP 110404-F14						●							0,05 - 0,25	0,05 - 3,5



CARBIDE **DN 1504** 55°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

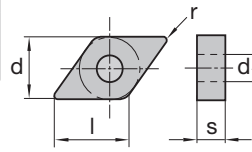
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
	DNMG 150408-M														0,16 - 0,40	1,0 - 5,5
	DNMG 150404-M1			●			●								0,16 - 0,40	1,0 - 4,0
	DNMG 150408-M1			●			●								0,16 - 0,40	1,0 - 4,0
	DNMG 150404-F4	●				●									0,06 - 0,16	0,4 - 1,5
	DNMG 150408-F4	●				●									0,08 - 0,19	0,5 - 2,0

CARBIDE
**DN
1506**

55°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

Machining Types	SECONDARY USE		PRIMARY USE	
				GENERAL CUTTING
				INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P												
	STAINLESS STEEL	M												
	CAST IRON	K												
	NON-FERROUS METAL	N												
	EXOTIC ALLOY	S												
	HARDENED STEEL	H												

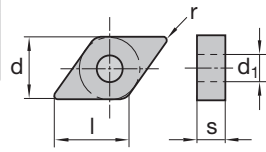
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			M1,2,3														
			60-180														
			60-160														
			150-230														
			100-200														
			60-160														
			100-200														
			90-140														
			70-150														
			120-180														
			100-170														
			70-180														
			B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
MR 	DNMG 150608-MR							●						●		0,35 - 0,60	1,2 - 7,2
	DNMG 150612-MR							●						●		0,35 - 0,60	1,2 - 7,2
M 	DNMG 150608-M													●		0,16 - 0,40	1,0 - 5,5
	DNMG 150612-M													●		0,16 - 0,40	1,0 - 5,5
M1 	DNMG 150604-M1				●			●								0,16 - 0,40	1,0 - 4,0
	DNMG 150608-M1				●			●						●		0,16 - 0,40	1,0 - 4,0
	DNMG 150612-M1				●			●						●		0,16 - 0,40	1,0 - 4,0
E-M1 	DNMG 150604 EL-M1													●		0,16 - 0,40	1,0 - 4,0
	DNMG 150604 ER-M1													●		0,16 - 0,40	1,0 - 4,0
	DNMG 150608 EL-M1													●		0,16 - 0,40	1,0 - 4,0
	DNMG 150608 ER-M1													●		0,16 - 0,40	1,0 - 4,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **DN 1506** 55°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

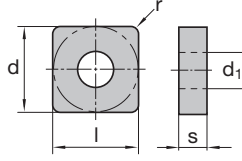
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
		Vc (m/min) CUTTING SPEED →											F (mm/rev) FEED RATE	AP (mm) DEPTH OF CUT	
GRADE →	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
		Vc (m/min) CUTTING SPEED →											F (mm/rev) FEED RATE	AP (mm) DEPTH OF CUT	
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
M7 	DNMG 150604-M7								●					0,10 - 0,18	0,5 - 2,5
	DNMG 150608-M7								●					0,15 - 0,25	0,8 - 3,0
	DNMG 150612-M7								●					0,18 - 0,30	0,8 - 3,0
MF 	DNMG 150604-MF			●			●				●			0,10 - 0,30	0,5 - 3,5
	DNMG 150608-MF			●			●				●			0,10 - 0,30	0,5 - 3,5
F4 	DNMG 150604-F4	●				●			●					0,06 - 0,16	0,4 - 1,5
	DNMG 150608-F4					●			●					0,08 - 0,19	0,5 - 2,0

CARBIDE
SC
09T3

90°
SQUARE
7° POSITIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
9,52	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS

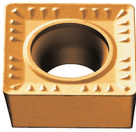


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE		PRIMARY USE	
				GENERAL CUTTING
				INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Stainless steel Groupe			
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
			M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3		
			B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1				
M10	SCMT 09T304-M10						●			●							0,08 - 0,25	0,4 - 3,0
	SCMT 09T308-M10									●							0,12 - 0,32	0,5 - 3,0



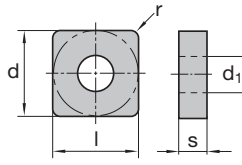
CARBIDE

SC
1204

90°
SQUARE
7° POSITIVE

STAINLESS STEEL

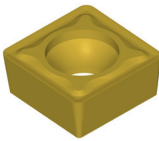

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	○
⊖	⊖	⊖	GENERAL CUTTING
⊕	⊕	⊕	INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P	○	●	○	○	⊖	⊖	○	⊕	⊕	⊕	⊕
	STAINLESS STEEL	M	●	●	●	●	⊖	⊖	●	⊕	⊕	⊕	⊕
	CAST IRON	K	○	○			⊖		○	⊕			
	NON-FERROUS METAL	N	○	○			⊖			⊕			
	EXOTIC ALLOY	S	●	●			⊖		●	⊕	⊖		
	HARDENED STEEL	H	○	○			⊖			⊕			

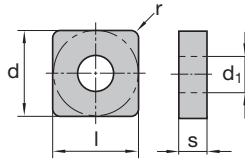
GEOMETRY ↓	DESIGNATION ↓	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
		Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE ↓	AP (MM) DEPTH OF CUT ↓	
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3			M1 - Ferritic M2 - Martensitic M3 - Austenitic (Hardened - reduce 30%)
GRADE →																
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
MR1	SCMT 120408-MR1										●				0,20 - 0,50	0,5 - 9,1
																
M10	SCMT 120408-M10					●									0,12 - 0,32	0,5 - 3,5
	SCMX 120408-M10											●			0,12 - 0,32	0,5 - 3,5

CARBIDE
SN
0903

90°
SQUARE
0° NEGATIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
9,52	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

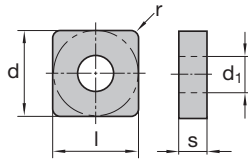
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe	
		Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
MF	SNMG 090304-MF	B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
									●					●	
														0,10 - 0,30	0,5 - 3,5

CARBIDE **SN 1204** 90° SQUARE 0° NEGATIVE **STAINLESS STEEL**

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	○
⊖	⊖	⊖	GENERAL CUTTING
⊕	⊕	⊕	INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P	○	●	○	○	⊖	⊖	○	⊕	⊕	⊕	⊕
	STAINLESS STEEL	M	●	●	●	●	●	●	●	⊕	⊕	⊕	⊕
	CAST IRON	K	○	○			⊖		○	⊕			
	NON-FERROUS METAL	N	○	○			⊖			⊕			
	EXOTIC ALLOY	S	●	●			●		●	⊕	⊖		
	HARDENED STEEL	H	○	○			⊖			⊕			

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
GRADE →	DESIGNATION	Vc (M/MIN) CUTTING SPEED →													
		60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180		
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
R7	SNMG 120408-R7								●					0,20 - 0,50	0,8 - 5,0
	SNMG 120412-R7								●					0,25 - 0,65	1,0 - 6,0
MR	SNMG 120408-MR										●			0,35 - 0,60	1,2 - 7,2
	SNMG 120412-MR										●	●		0,35 - 0,60	1,2 - 7,2
M	SNMG 120408-M											●		0,16 - 0,40	1,0 - 5,5
	SNMG 120412-M											●		0,16 - 0,40	1,0 - 5,5
M1	SNMG 120408-M1						●							0,16 - 0,40	1,0 - 4,0
	SNMG 120412-M1						●							0,16 - 0,40	1,0 - 4,0

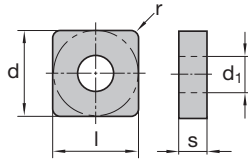
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
SN
1204

90°
SQUARE
0° NEGATIVE

STAINLESS STEEL

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

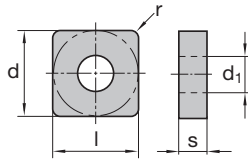
Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
		Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
M7	SNMG 120408-M7	B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
				60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180

CARBIDE **SN 1506** **90°**
SQUARE
0° NEGATIVE

STAINLESS STEEL

15,88	d	INSCRIBED CIRCLE
15,88	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,15	± 0,10	± 0,13	
U	± 0,27	± 0,18	± 0,13	

Machining Types	SECONDARY USE		PRIMARY USE	
				GENERAL CUTTING
				INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

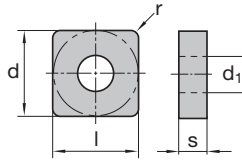
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe	
		Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
M1	SNMG 150612-M1	B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
						●			●						●
	SNMG 150616-M1			●			●						●	0,16 - 0,40	1,0 - 4,0

CARBIDE
SN
1906

90°
SQUARE
0° NEGATIVE

STAINLESS STEEL

19,05	d	INSCRIBED CIRCLE
19,05	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,15	± 0,10	± 0,13	
U	± 0,27	± 0,18	± 0,13	

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
		GENERAL CUTTING	
		INTERRUPTED CUTTING	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

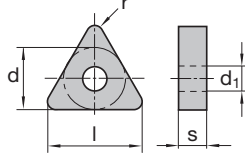
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
			M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180			
R8	SNMM 190616-R8															0,25 - 1,2	0,8 - 12,0
MR	SNMG 190612-MR							●				●	●			0,35 - 0,60	1,2 - 7,2
	SNMG 190616-MR												●			0,35 - 0,60	1,2 - 7,2
M1	SNMG 190612-M1			●		●							●			0,16 - 0,40	1,0 - 4,0
	SNMG 190616-M1			●									●			0,16 - 0,40	1,0 - 4,0

CARBIDE
TC
0902

60°
TRIANGLE
7° POSITIVE

STAINLESS STEEL

5,56	d	INSCRIBED CIRCLE
9,60	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

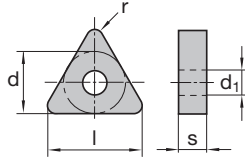
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe															
		Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT														
F11	TCGT 090202-F11	B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1															
				M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180	M1 - Ferritic M2 - Martensitic M3 - Austenitic (Hardened - reduce 30%)

CARBIDE
TC
1102

60°
TRIANGLE
7° POSITIVE

STAINLESS STEEL

6,35	d	INSCRIBED CIRCLE
11,00	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

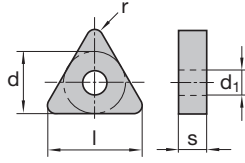
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1
○	●	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe	
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →													
		GRADE →													
		60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180		
MR1 	TCMT 110204-MR1										●			0,20 - 0,50	0,5 - 9,1
	TCMT 110208-MR1										●			0,20 - 0,50	0,5 - 9,1
E-M1 	TCGT 110204 EL-M1										●			0,13 - 0,63	1,0 - 4,0
M10 	TCMT 110204-M10					●			●					0,08 - 0,20	0,4 - 2,0
MF7 	TCMT 110204-MF7					●			●					0,08 - 0,20	0,4 - 2,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **TC 16T3** 60° TRIANGLE 7° POSITIVE **STAINLESS STEEL**

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
		GENERAL CUTTING	
		INTERRUPTED CUTTING	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
		Vc (M/MIN) CUTTING SPEED →														
		GRADE →														
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
MR1 	TCMT 16T304-MR1													●	0,20 - 0,50	0,5 - 9,1
	TCMT 16T308-MR1													●	0,20 - 0,50	0,5 - 9,1
E-M1 	TCGT 16T304 ER-M1													●	0,13 - 0,63	1,0 - 4,0
	TCGT 16T308 EL-M1													●	0,13 - 0,63	1,0 - 4,0
	TCGT 16T308 ER-M1													●	0,13 - 0,63	1,0 - 4,0
M10 	TCMT 16T304-M10					●			●						0,08 - 0,25	0,4 - 3,0
	TCMT 16T308-M10					●			●						0,12 - 0,32	0,5 - 3,0
MF7 	TCMT 16T304-MF7					●			●						0,08 - 0,25	0,4 - 3,0
	TCMT 16T308-MF7					●			●						0,12 - 0,32	0,5 - 3,0

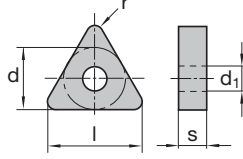
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
TN
1604

60°
TRIANGLE
0° NEGATIVE

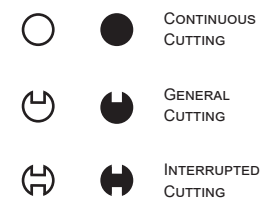
STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P	Tolerance Classes												Machining Types			
			○	●	○	○	⊕	⊕	○	⊕	⊕	⊕	⊕	⊕	⊕	⊕	○	●
STAINLESS STEEL	M		●	●	●	●	⊕	⊕	●	⊕	⊕	⊕	⊕	⊕	⊕	⊕	●	○
CAST IRON	K		○	○			⊕		○								○	○
NON-FERROUS METAL	N		○	○			⊕										○	○
EXOTIC ALLOY	S		●	●			⊕		●		●				⊕		○	○
HARDENED STEEL	H		○	○			⊕										○	○



GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe	
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE
		Vc (M/MIN) CUTTING SPEED →													
		GRADE →													
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
MR6 	TNMG 160408-MR6	●				●			●					0,12 - 0,30	1,0 - 4,0
	TNMG 160412-MR6	●							●					0,15 - 0,30	1,0 - 4,0
M 	TNMG 160408-M						●				●			0,16 - 0,40	1,0 - 5,5
	TNMG 160412-M						●				●			0,16 - 0,40	1,0 - 5,5
M1 	TNMG 160404 EL-M1											●		0,16 - 0,40	1,0 - 4,0
	TNMG 160404 ER-M1											●		0,16 - 0,40	1,0 - 4,0
	TNMG 160408 ER-M1											●		0,16 - 0,40	1,0 - 4,0
M7 	TNMG 160408-M7								●					0,15 - 0,25	0,8 - 3,0

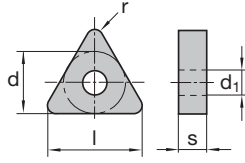
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
TN
1604

60°
TRIANGLE
0° NEGATIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

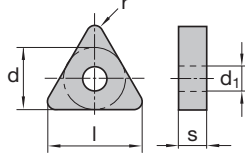
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MF 	TNMG 160404-MF						●								0,10 - 0,30	0,5 - 3,5
	TNMG 160408-MF						●								0,10 - 0,30	0,5 - 3,5
F4 	TNMG 160404-F4	●				●			●						0,08 - 0,17	0,4 - 1,5
	TNMG 160408-F4	●				●			●						0,10 - 0,20	0,5 - 2,0

CARBIDE
TN
2204

60°
TRIANGLE
0° NEGATIVE

STAINLESS STEEL

12,70	d	INSCRIBED CIRCLE
22,00	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS

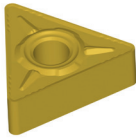


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

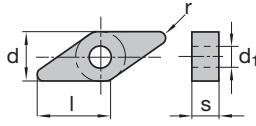
Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe	
		Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
GRADE →		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
M	TNMG 220408-M						●							0,16 - 0,40	1,0 - 5,5
	TNMG 220412-M						●							0,16 - 0,40	1,0 - 5,5



CARBIDE **VB** 1604 **35°**
DIAMOND
5° POSITIVE **STAINLESS STEEL**

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	○												
	NON-FERROUS METAL	N	○	○												
	EXOTIC ALLOY	S	●	●												
	HARDENED STEEL	H	○	○												

Machining Types

○	●	CONTINUOUS CUTTING
⊖	⊖	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING

SECONDARY USE (○) PRIMARY USE (●)

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe	
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
M1	VBMT 160404-M1	60-180	60-160	150-230	100-200	60-160	100-200	100-200	90-140	70-150	120-180	100-170	70-180	0,13 - 0,63	1,0 - 4,0
	VBMT 160408-M1	B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	0,13 - 0,63	1,0 - 4,0

Vc (M/MIN) CUTTING SPEED →

GRADE →

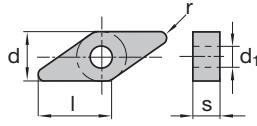
Stainless steel Groupe:
M1 - Ferritic
M2 - Martensitic
M3 - Austenitic
(Hardened - reduce 30%)

CARBIDE
**VC
0501**

35°
DIAMOND
7° POSITIVE

STAINLESS STEEL

3,10	d	INSCRIBED CIRCLE
5,40	l	CUTTING EDGE LENGTH
1,59	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

		○	●	○	○	⊕	⊕	○	⊕	⊕	⊕	⊕	⊕
○	●	○	○	⊕	⊕	○	⊕	⊕	⊕	⊕	⊕	⊕	⊕
○	○	○	○	⊕	○	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
○	○	○	○	⊕	○	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
○	○	○	○	⊕	○	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
○	○	○	○	⊕	○	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

Machining Types		○	●	⊕	⊕
○	●	○	●	⊕	⊕
○	○	○	○	⊕	⊕
○	○	○	○	⊕	⊕
○	○	○	○	⊕	⊕

SECONDARY USE: ○
 PRIMARY USE: ●
 CONTINUOUS CUTTING: ○
 GENERAL CUTTING: ⊕
 INTERRUPTED CUTTING: ⊕

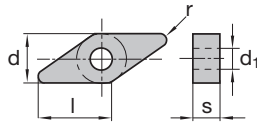
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
	VC050102-F						●								0,05 - 0,20	0,1 - 2,0
	VC050101-F10					●									0,04 - 0,15	0,05 - 1,0
	VC050102-F10					●									0,04 - 0,20	0,1 - 2,5
	VC050104-F10					●									0,05 - 0,16	0,1 - 2,5
	VC050102-F11				●										0,02 - 0,05	0,10 - 0,8

CARBIDE
VC
0702

35°
DIAMOND
7° POSITIVE

STAINLESS STEEL

3,97	d	INSCRIBED CIRCLE
6,85	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

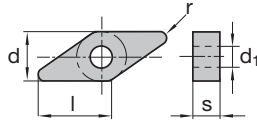
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
MF7	VCMT 070204-MF7										●				0,05 - 0,15	0,4 - 1,0
F	VCMT 070202-F							●						●	0,05 - 0,20	0,1 - 2,0
	VCMT 070204-F							●						●	0,05 - 0,20	0,1 - 2,0
F11	VCGT 0702015-F11		●												0,02 - 0,06	0,1 - 1,0
	VCGT 070202-F11								●						0,05 - 0,08	0,2 - 1,0
	VCGT 070204-F11								●						0,08 - 1,20	0,2 - 1,0

CARBIDE
**VC
1103**

35°
DIAMOND
7° POSITIVE

STAINLESS STEEL

6,35	d	INSCRIBED CIRCLE
11,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

		M		P		K		N		S		H	
○	●	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○

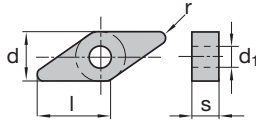
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →													
		GRADE →													
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
M11 	VCMT 110302-M11	●				●			●					0,08 - 0,20	0,4 - 2,0
	VCMT 110304-M11	●				●			●					0,08 - 0,20	0,4 - 2,0
MF7 	VCMT 110302-MF7	●				●			●					0,05 - 0,15	0,4 - 1,5
	VCMT 110304-MF7	●				●			●					0,08 - 0,20	0,4 - 1,5
F 	VCMT 110302-F						●					●		0,05 - 0,20	0,1 - 2,0
	VCMT 110304-F						●					●		0,05 - 0,20	0,1 - 2,0
F10 	VCMT 110302-F10	●				●								0,04 - 0,12	0,1 - 1,0
	VCMT 110304-F10	●				●			●					0,05 - 0,16	0,1 - 1,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **VC 1103** **35°**
DIAMOND
7° POSITIVE

STAINLESS STEEL

6,35	d	INSCRIBED CIRCLE
11,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

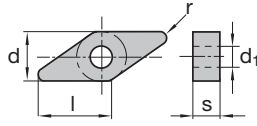
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe			
		Vc (m/min) CUTTING SPEED →												F (mm/rev) FEED RATE	AP (mm) DEPTH OF CUT		
F11	VC GT 1103008-F11	GRADE →															
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1				
	VC GT 1103015-F11		●		●											0,02 - 0,06	0,1 - 1,5
	VC GT 110301-F11		●													0,05 - 0,12	0,2 - 2,0
	VC GT 110302-F11		●		●			●								0,02 - 0,06	0,1 - 1,5
	VC GT 1103035-F11		●						●							0,05 - 0,12	0,2 - 2,0
	VC GT 110304-F11		●		●				●							0,08 - 0,25	0,2 - 2,5
	VC GT 1103005-F12						●									0,02 - 0,06	0,1 - 1,5
	VC GT 1103008-F12				●											0,02 - 0,06	0,1 - 1,5
	VC GT 1103015-F12				●											0,05 - 0,12	0,2 - 2,0
	VC GT 110301-F12						●									0,02 - 0,06	0,1 - 1,5
	VC GT 110302-F12	●					●									0,05 - 0,12	0,2 - 2,0
	VC GT 110304-F12	●					●									0,08 - 0,25	0,2 - 2,5

CARBIDE
**VC
1303**

35°
DIAMOND
7° POSITIVE

STAINLESS STEEL

7,94	d	INSCRIBED CIRCLE
13,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



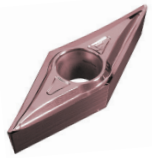
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes	CLASS		m		d		s	
	E	○	●	○	○	⊕	⊕	○
G	●	●	●	●	⊕	⊕	⊕	
H	○	○			⊕			
M	○	○			⊕			
U	●	●	●	●	⊕	⊕	⊕	

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	CONTINUOUS CUTTING
	⊕	⊕	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING	

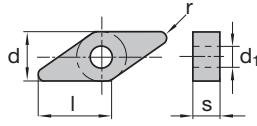
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
		Vc (M/MIN) CUTTING SPEED →													
		GRADE →													
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
F11	VCGT 130302-F11		●											0,05 - 0,12	0,2 - 2,0
	VCGT 130304-F11		●											0,08 - 0,25	0,2 - 2,5



CARBIDE **VC 1604** 35°
DIAMOND
7° POSITIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M														
	CAST IRON	K														
	NON-FERROUS METAL	N														
	EXOTIC ALLOY	S														
	HARDENED STEEL	H														

Tolerance Classes															

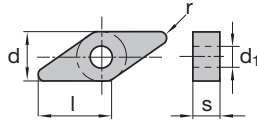
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
MR1 	VCMT 160404-MR1															0,20 - 0,50	0,5 - 5,0
	VCMT 160408-MR1															0,20 - 0,50	0,5 - 5,0
	VCMT 160412-MR1															0,20 - 0,50	0,5 - 5,0
M1 	VCMT 160404-M1				●			●								0,13 - 0,63	1,0 - 4,0
	VCMT 160408-M1							●								0,13 - 0,63	1,0 - 4,0
	VCMT 160412-M1							●								0,13 - 0,63	1,0 - 4,0
M11 	VCMT 160404-M11	●					●			●						0,12 - 0,25	0,8 - 3,0
	VCMT 160408-M11	●					●			●						0,15 - 0,25	0,8 - 3,0
MF7 	VCMT 160404-MF7	●					●			●						0,08 - 0,20	0,4 - 2,0
	VCMT 160408-MF7	●					●			●						0,12 - 0,30	0,5 - 2,0

CARBIDE
**VC
1604**

35°
DIAMOND
7° POSITIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

		Secondary Use		Primary Use	
○	●	○	●	○	●
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○

Machining Types

○	●	CONTINUOUS CUTTING
○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING

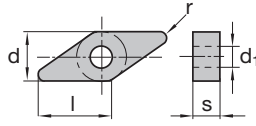
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
F10 	VCMT 160404-F10	●				●		●							0,05 - 0,16	0,1 - 1,5
F11 	VCGT 160402-F11		●					●							0,05 - 0,12	0,2 - 2,0
	VCGT 160404-F11		●					●							0,08 - 0,25	0,2 - 2,5
	VCGT 160408-F11		●												0,10 - 0,30	0,3 - 3,0

CARBIDE
VN
1604

35°
DIAMOND
0° NEGATIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes	CLASS		m		d		s	
	E	○	●	○	○	○	○	○
G	○	○	○	○	○	○	○	
H	○	○	○	○	○	○	○	
M	○	○	○	○	○	○	○	
U	○	○	○	○	○	○	○	

Machining Types	SECONDARY USE		PRIMARY USE	
	○	●	○	●
○	○	○	○	
○	○	○	○	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
M7 	VNMG 160404-M7							●							0,10 - 0,18	0,5 - 2,0
M8 	VNMG 160408-M8								●						0,15 - 0,25	0,8 - 3,0
F4 	VNMG 160404-F4	●				●									0,05 - 0,15	0,2 - 1,5
	VNMG 160408-F4	●				●		●							0,07 - 0,18	0,3 - 2,0
F14 	VNGP 160402-F14							●							0,05 - 0,25	0,03 - 3,0
	VNGP 160404-F14							●							0,05 - 0,25	0,05 - 3,5

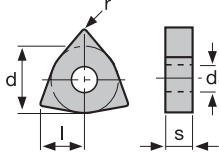
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
**WC
0201**

80°
TRIGON
7° POSITIVE

STAINLESS STEEL

3,97	d	INSCRIBED CIRCLE
2,70	l	CUTTING EDGE LENGTH
1,59	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

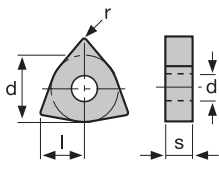
Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
		GENERAL CUTTING	
		INTERRUPTED CUTTING	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe		
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
NCB1 	WCMT 020104-NCB1						●							0,08 - 0,25	0,3 - 1,5
MF7 	WCMT 020102-MF7									●				0,05 - 0,12	0,2 - 1,0
	WCMT 020104-MF7									●				0,08 - 0,25	0,3 - 1,5
F10 	WCMT 020102-F10									●				0,04 - 0,12	0,1 - 1,0
	WCMT 020104-F10									●				0,05 - 0,16	0,1 - 1,5

CARBIDE WC 0402 80°
TRIGON
7° POSITIVE

STAINLESS STEEL

6,35	d	INSCRIBED CIRCLE
4,30	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

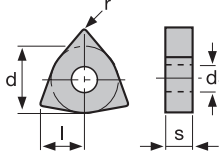
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe	
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →													
		GRADE →													
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
M10	WCMT 040204-M10					●								0,08 - 0,25	0,4 - 2,0

CARBIDE
**WC
06T3**

80°
TRIGON
7° POSITIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
6,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
		GENERAL CUTTING	
		INTERRUPTED CUTTING	

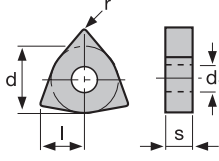
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe	
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →													
		GRADE →													
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1		
M10	WCMT 06T304-M10					●			●					0,08 - 0,25	0,4 - 2,5
	WCMT 06T308-M10					●								0,12 - 0,32	0,5 - 2,5

CARBIDE
WN
0604

80°
TRIGON
0° NEGATIVE

STAINLESS STEEL

9,52	d	INSCRIBED CIRCLE
6,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

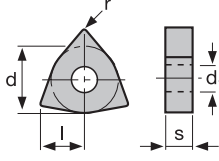
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe			
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
	WNMG 060408-M															0,16 - 0,40	1,0 - 5,5
	WNMG 060404-M1															0,16 - 0,40	1,0 - 4,0
	WNMG 060404-M7															0,10 - 0,18	0,5 - 2,0
	WNMG 060408-M7															0,15 - 0,25	0,8 - 2,5

CARBIDE
**WN
0604**

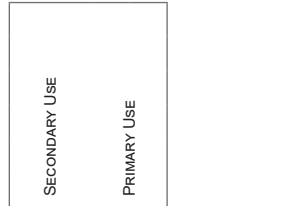
80°
TRIGON
0° NEGATIVE

STAINLESS STEEL

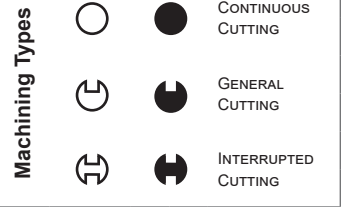
9,52	d	INSCRIBED CIRCLE
6,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS

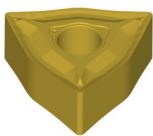


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	



MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	○												
	NON-FERROUS METAL	N	○	○												
	EXOTIC ALLOY	S	●	●			●	●								
	HARDENED STEEL	H	○	○												



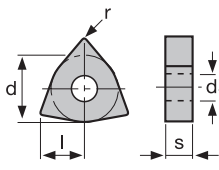
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe					
		M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	M1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT				
		Vc (M/MIN) CUTTING SPEED →																	
		GRADE →																	
MF	WNMG 060404-MF																	0,10 - 0,30	0,5 - 3,5
																			

CARBIDE
WN
0804

80°
TRIGON
0° NEGATIVE

STAINLESS STEEL

12,70	d	INSCRIBED CIRCLE
8,72	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
		GENERAL CUTTING	
		INTERRUPTED CUTTING	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Stainless steel Groupe			
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
R7 	WNMG 080408-R7								●						0,20 - 0,40	0,8 - 6,0
	WNMG 080412-R7								●						0,25 - 0,60	1,0 - 6,0
MR 	WNMG 080408-MR							●			●	●		0,35 - 0,60	1,2 - 7,2	
	WNMG 080412-MR							●			●	●		0,35 - 0,60	1,2 - 7,2	
M 	WNMG 080408-M											●		0,16 - 0,40	1,0 - 5,5	
	WNMG 080412-M											●		0,16 - 0,40	1,0 - 5,5	
	WNMG 080416-M											●		0,16 - 0,40	1,0 - 5,5	
M1 	WNMG 080408-M1		●				●							0,16 - 0,40	1,0 - 4,0	
	WNMG 080412-M1		●				●							0,16 - 0,40	1,0 - 4,0	
	WNMG 080416-M1						●							0,16 - 0,40	1,0 - 4,0	

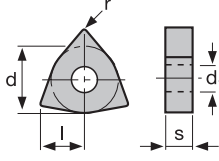
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
WN
0804

80°
TRIGON
0° NEGATIVE

STAINLESS STEEL

12,70	d	INSCRIBED CIRCLE
8,72	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS




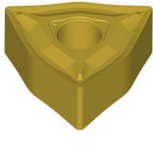

Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes	CLASS		m		d		s	
	E	○	●	○	○	○	○	○
G	○	○	○	○	○	○	○	
H	○	○	○	○	○	○	○	
M	○	○	○	○	○	○	○	
U	○	○	○	○	○	○	○	

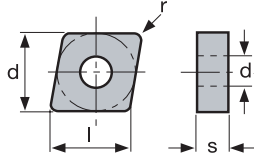
Machining Types	SECONDARY USE		PRIMARY USE	
	○	●	○	●
○	○	○	○	
○	○	○	○	

CONTINUOUS CUTTING
GENERAL CUTTING
INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
		Vc (m/min) CUTTING SPEED →												F (mm/rev) FEED RATE	AP (mm) DEPTH OF CUT	
GRADE →	DESIGNATION	MACHINING MATERIAL GROUPE →												Stainless steel Groupe		
		Vc (m/min) CUTTING SPEED →												F (mm/rev) FEED RATE	AP (mm) DEPTH OF CUT	
		B22-V2	B32-S2	B41-D1	B42-T2	B42-W2	B51-E1	B52-U2	B62-O2	B62-Y2	B71-G1	B72-R2	B81-F1			
M7 	WNMG 080404-M7								●						0,10 - 0,20	0,5 - 3,0
	WNMG 080408-M7								●						0,15 - 0,32	0,8 - 3,0
	WNMG 080412-M7								●						0,15 - 0,35	0,8 - 3,5
MF 	WNMG 080404-MF						●				●				0,10 - 0,30	0,5 - 3,5
	WNMG 080408-MF						●				●				0,10 - 0,30	0,5 - 3,5
F14 	WNGP 080404-F14							●							0,05 - 0,25	0,05 - 3,5
	WNGP 080408-F14							●							0,05 - 0,25	0,05 - 4,0

CARBIDE	CC	80°	CAST IRON
	0602	DIAMOND	
		7° POSITIVE	

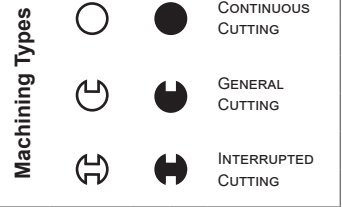
6,35	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS

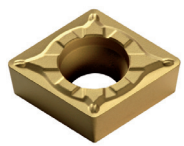
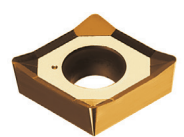

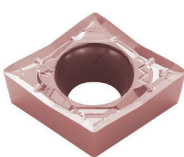


Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL			Tolerance Classes										Machining Types				
	STEEL	P	○	●	○	●	○	●	○	●	○	●	○	●	○	●	○
STAINLESS STEEL	M																
CAST IRON	K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
NON-FERROUS METAL	N																
EXOTIC ALLOY	S																
HARDENED STEEL	H																

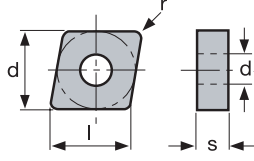


GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
			K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230				
			C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2				
MF7	CCMT 060204-MF7						●							0,08 - 0,20	0,4 - 2,0
															
MF17	CCGT 060205-MF17				●			●						0,02 - 0,06	0,05 - 1,5
	CCGT 060201-MF17				●			●						0,02 - 0,06	0,5 - 1,5
	CCGT 060202-MF17				●			●						0,05 - 0,12	0,5 - 2,0
	CCGT 060204-MF17				●			●						0,08 - 0,25	0,6 - 3,0
F12	CCGT 060205-F12				●			●						0,02 - 0,06	0,1 - 1,5
	CCGT 060201-F12				●			●						0,02 - 0,06	0,1 - 1,5
	CCGT 060202-F12				●			●						0,05 - 0,12	0,2 - 2,0
	CCGT 060204-F12				●			●						0,08 - 0,25	0,2 - 2,5
W1	CCGT 060202-W1				●									0,10 - 0,30	0,3 - 3,0
	CCGT 060204-W1				●									0,12 - 0,40	0,5 - 4,0
	CCGT 060208-W1				●									0,15 - 0,50	0,7 - 4,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CC	80°	CAST IRON
	09T3	DIAMOND	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

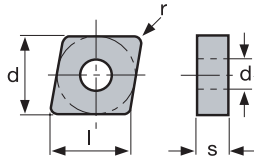
Machining Types	SECONDARY USE		PRIMARY USE	

GEOMETRY ↓	DESIGNATION ↓	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
		Vc (m/min) CUTTING SPEED →										F (mm/rev) FEED RATE ↓	AP (mm) DEPTH OF CUT ↓	
		200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230				
GRADE →		K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3				
		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2				
M2 	CCMT 09T304-M2				●								0,15 - 0,50	0,8 - 8,0
	CCMT 09T308-M2				●								0,15 - 0,50	0,8 - 8,0
MF7 	CCMT 09T308-MF7	●											0,12 - 0,32	0,5 - 3,0
MF17 	CCGT 09T301-MF17			●			●						0,02 - 0,06	0,5 - 1,5
	CCGT 09T302-MF17			●			●						0,05 - 0,12	0,5 - 2,0
	CCGT 09T304-MF17			●			●						0,08 - 0,25	0,6 - 4,0
	CCGT 09T308-MF17			●			●						0,10 - 0,35	0,8 - 4,0
F12 	CCGT 09T3005-F12			●			●						0,02 - 0,06	0,1 - 1,5
	CCGT 09T301-F12			●			●						0,02 - 0,06	0,1 - 1,5
	CCGT 09T302-F12			●			●						0,05 - 0,12	0,2 - 2,0
	CCGT 09T304-F12			●			●						0,08 - 0,25	0,2 - 2,5
	CCGT 09T308-F12			●			●						0,10 - 0,30	0,3 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CC	80°	CAST IRON
	09T3	DIAMOND	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

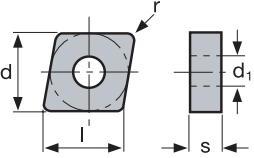
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE		
	○	●	○	CONTINUOUS CUTTING
	⊖	⊖	⊖	GENERAL CUTTING
	⊕	⊕	⊕	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
		Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
GRADE →		CUTTING SPEED (M/MIN)										FEED RATE (MM/REV)			
DESIGNATION		CUTTING SPEED (M/MIN)										FEED RATE (MM/REV)			
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">W1</div> </div>	CCGT 09T302-W1											K1,2,3	200-300	0,10 - 0,30	0,3 - 3,0
	CCGT 09T304-W1											K1,2,3	250-400	0,12 - 0,40	0,5 - 4,0
	CCGT 09T308-W1											K1,2,3	150-210	0,15 - 0,50	0,7 - 4,0
	CCGT 09T302-W1											K1,2,3	250-400		

CARBIDE	CC	80°	CAST IRON
	1204	DIAMOND	
		7° POSITIVE	

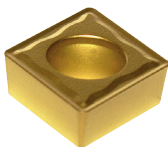
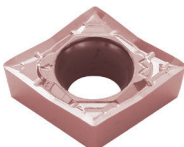
12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

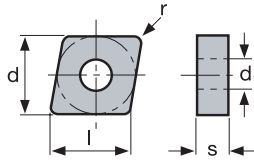
Machining Types	○	●	CONTINUOUS CUTTING
	◐	◑	GENERAL CUTTING
⊖	⊕	INTERRUPTED CUTTING	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY ↓	DESIGNATION ↓	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
		Vc (m/min) CUTTING SPEED →										F (mm/rev) FEED RATE ↓	AP (mm) DEPTH OF CUT ↓	
		GRADE →												
		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2				
M	CCMT 120408-M				●								0,15 - 0,50	0,8 - 8,0
														
MF17	CCGT 120401-MF17			●									0,05 - 0,12	0,5 - 2,0
	CCGT 120402-MF17			●		●							0,05 - 0,12	0,5 - 2,0
	CCGT 120404-MF17			●		●							0,08 - 0,25	0,6 - 5,0
	CCGT 120408-MF17			●		●							0,10 - 0,35	0,8 - 5,0
W1	CCGT 120404-W1			●									0,12 - 0,40	0,5 - 4,0
	CCGT 120408-W1			●									0,15 - 0,50	0,7 - 4,0
														

CARBIDE **CC** 2509 **80°**
DIAMOND
7° POSITIVE **CAST IRON**

25,40	d	INSCRIBED CIRCLE
25,80	l	CUTTING EDGE LENGTH
9,52	s	THICKNESS

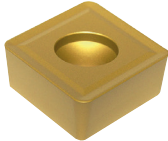


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,18	± 0,13	± 0,13	
U	± 0,38	± 0,25	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

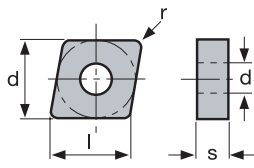
Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
			Vc (M/MIN) CUTTING SPEED →		F (MM/REV) FEED RATE		AP (MM) DEPTH OF CUT									
R3	CCMT 250924-R3	●	C22-AB2	K1,2,3	200-300	0,40 - 1,60	2,0 - 12,5									
			C21-I1	K1,2,3	250-400											
			A22-A2	K1,2,3	150-210											
			C31-J1	K1,2,3	250-400											
			C22-AA2	K1,2,3	200-300											
			A32-B2	K1,2,3	130-200											
			C52-AD2	K1,2,3	150-230											
			C42-AC2	K1,2,3	200-260											
			A52-C2	K1,2,3	150-230											

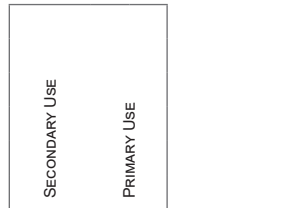


CARBIDE **CN 0903** **80°**
DIAMOND
0° NEGATIVE **CAST IRON**

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS

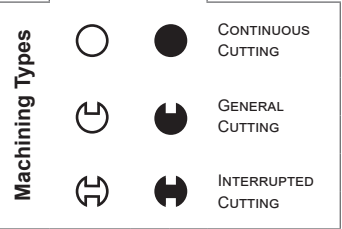


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

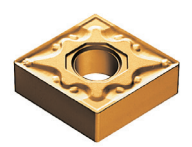


MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

		○	●	○	●	○	⊕	⊕				
STEEL	P		●	○	●	○	⊕	⊕				
STAINLESS STEEL	M		○		○	○	⊕	⊕				
CAST IRON	K	●	●	●	●	●	⊕	⊕				
NON-FERROUS METAL	N											
EXOTIC ALLOY	S						⊕	⊕				
HARDENED STEEL	H											

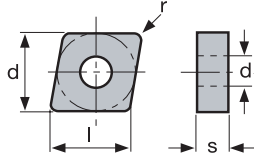


GEOMETRY ↓	DESIGNATION ↓	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
M6	CNMG 090304-M6	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3				
		200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230					



CARBIDE	CN 1204	80°	CAST IRON
		DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

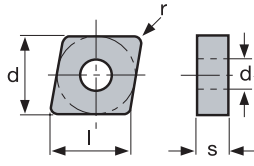
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
			Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
R7	CNMG 120408-R7		●												0,20 - 0,40	0,8 - 6,0
	CNMG 120412-R7		●												0,25 - 0,60	1,0 - 6,0
MR	CNMG 120408-MR			●											0,25 - 1,00	1,2 - 10,0
	CNMG 120412-MR			●											0,25 - 1,00	1,2 - 10,0
	CNMG 120416-MR			●											0,25 - 1,00	1,2 - 10,0
M	CNMG 120408-M			●											0,15 - 0,50	0,8 - 8,0
	CNMG 120412-M			●											0,15 - 0,50	0,8 - 8,0
MF	CNMG 120404-MF			●											0,11 - 0,40	0,6 - 5,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CN 1204	80°	CAST IRON
		DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

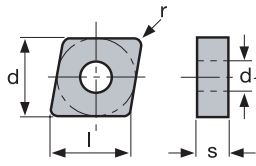
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE		PRIMARY USE	
	○	●	○	●
⊖	⊖	⊖	⊖	GENERAL CUTTING
⊕	⊕	⊕	⊕	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe				
		Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
GRADE →		CUTTING SPEED (M/MIN)										FEED RATE (MM/REV)				
DESIGNATION		CUTTING SPEED (M/MIN)										FEED RATE (MM/REV)				
	CNMA 120408															
	CNMA 120412															

CARBIDE	CN 1606	80°	CAST IRON
		DIAMOND	
		0° NEGATIVE	

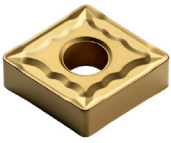
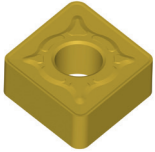
15,88	d	INSCRIBED CIRCLE
16,10	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,15	± 0,10	± 0,13
	U	± 0,27	± 0,18	± 0,13

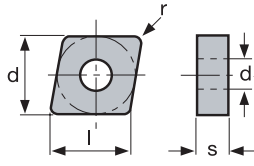
MACHINING MATERIAL	STEEL	P	○	●	○	●	○	☉	☉					
	STAINLESS STEEL	M		○		○	○		☉					
	CAST IRON	K	●	●	●	●	●	●	☉	☉				
	NON-FERROUS METAL	N												
	EXOTIC ALLOY	S							☉					
	HARDENED STEEL	H												

Machining Types	SECONDARY USE	PRIMARY USE	
○	●	☉	CONTINUOUS CUTTING
☉	☉	☉	GENERAL CUTTING
☉	☉	☉	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe					
			C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2					F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
R7 	CNMG 160612-R7		K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3					0,25 - 0,60	1,2 - 8,0
			200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230							
MR 	CNMG 160612-MR			●		●											0,25 - 1,00	1,2 - 10,0
	CNMG 160616-MR			●		●											0,25 - 1,00	1,2 - 10,0

CARBIDE	CN 1906	80°	CAST IRON
		DIAMOND	
		0° NEGATIVE	

19,05	d	INSCRIBED CIRCLE
19,30	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,15	± 0,10	± 0,13	
U	± 0,27	± 0,18	± 0,13	

Machining Types	
○	●
⊖	⊕
⊗	⊙

SECONDARY USE PRIMARY USE

○ ● CONTINUOUS CUTTING

⊖ ⊕ GENERAL CUTTING

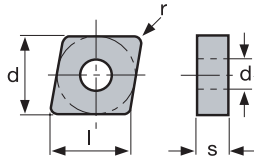
⊗ ⊙ INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
STAINLESS STEEL	M	
CAST IRON	K	
NON-FERROUS METAL	N	
EXOTIC ALLOY	S	
HARDENED STEEL	H	

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →										Cast iron Groupe					
			C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2					F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
R		CNMM 190616-R				●											0,40 - 1,60	2,0 - 12,5
		CNMM 190624-R				●												0,40 - 1,60
-		CNMA 190616				●												

CARBIDE	CN 2509	80°	CAST IRON
		DIAMOND	
		0° NEGATIVE	

25,40	d	INSCRIBED CIRCLE
25,80	l	CUTTING EDGE LENGTH
9,52	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,18	± 0,13	± 0,13	
U	± 0,38	± 0,25	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

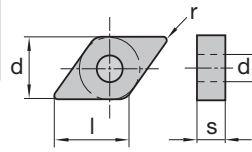
Machining Types		SECONDARY USE	PRIMARY USE
○	●	○	●
○	●	○	●
○	●	○	●
○	●	○	●

○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ○ INTERRUPTED CUTTING
 ● INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe	
		Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
GRADE →		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2			
↓	↓	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3			
		200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230			
↓	↓				●								

CARBIDE	DC	55°	CAST IRON
	0702	DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
7,70	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
---------------	-------------

MACHINING MATERIAL	STEEL	P										
	STAINLESS STEEL	M <td colspan="10"></td>										
	CAST IRON	K	●	●	●	●	●	●	●	●	●	●
	NON-FERROUS METAL	N										
	EXOTIC ALLOY	S										
	HARDENED STEEL	H										

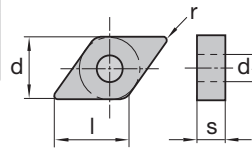
Machining Types	
○	●
⊖	⊕
⊗	⊙

○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ⊖ INTERRUPTED CUTTING
 ⊕

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
			Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
M	DCMT 070204-M		●		●										0,15 - 0,50	0,8 - 5,0
	DCMT 070208-M		●		●										0,15 - 0,50	0,8 - 5,0
MF17	DCGT 0702005-MF17				●			●							0,02 - 0,06	0,5 - 1,5
	DCGT 070201-MF17				●			●							0,02 - 0,06	0,5 - 1,5
	DCGT 070202-MF17				●			●							0,05 - 0,12	0,5 - 2,0
	DCGT 070204-MF17				●			●							0,08 - 0,25	0,6 - 2,5
F12	DCGT 0702005-F12				●			●							0,02 - 0,06	0,1 - 1,5
	DCGT 070201-F12				●			●							0,02 - 0,06	0,1 - 1,5
	DCGT 070202-F12				●			●							0,05 - 0,12	0,2 - 2,0
	DCGT 070204-F12				●			●							0,08 - 0,25	0,2 - 2,5
W1	DCGT 070202-W1				●										0,10 - 0,30	0,3 - 3,0
	DCGT 070204-W1				●										0,12 - 0,40	0,5 - 4,0
	DCGT 070208-W1				●										0,15 - 0,50	0,5 - 4,0

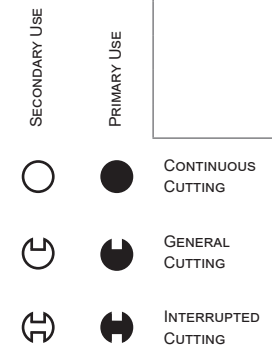
CARBIDE **DC 11T3** **55°**
DIAMOND
7° POSITIVE **CAST IRON**

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	MATERIAL	GRADE	Tolerance Classes										Machining Types			
			○	●	○	●	○	●	○	●	○	●	○	●	○	●
STEEL	P		○	●	○	●	○	●	○	●	○	●	○	●	○	●
STAINLESS STEEL	M		○	○	○	○	○	○	○	○	○	○	○	○	○	○
CAST IRON	K		●	●	●	●	●	●	●	●	●	●	●	●	●	●
NON-FERROUS METAL	N															
EXOTIC ALLOY	S															
HARDENED STEEL	H															

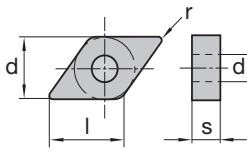


GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
			K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
M 	DCMT 11T304-M		●	●										0,15 - 0,50	0,8 - 6,0
	DCMT 11T308-M		●	●										0,15 - 0,50	0,8 - 6,0
MF7 	DCMT 11T304-MF7		●											0,08 - 0,25	0,4 - 3,0
	DCMT 11T308-MF7		●											0,12 - 0,32	0,5 - 3,0
MF17 	DCGT 11T301-MF17			●			●							0,02 - 0,06	0,5 - 1,5
	DCGT 11T302-MF17			●			●							0,05 - 0,12	0,5 - 2,0
	DCGT 11T304-MF17			●			●							0,08 - 0,25	0,6 - 3,0
	DCGT 11T308-MF17			●			●							0,10 - 0,30	0,8 - 3,5
F12 	DCGT 11T3005-F12			●			●							0,02 - 0,06	0,1 - 1,5
	DCGT 11T301-F12			●			●							0,02 - 0,06	0,1 - 1,5
	DCGT 11T302-F12			●			●							0,05 - 0,12	0,2 - 2,0
	DCGT 11T304-F12			●			●							0,08 - 0,25	0,2 - 2,5
	DCGT 11T308-F12			●			●							0,10 - 0,30	0,3 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DC 11T3	55°	CAST IRON
		DIAMOND	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
○	●
⊖	⊕
⊗	⊙

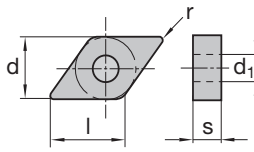
MACHINING MATERIAL	STEEL	P																					
		STAINLESS STEEL	M																				
	CAST IRON	K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	NON-FERROUS METAL	N																					
	EXOTIC ALLOY	S																					
	HARDENED STEEL	H																					

Machining Types	○	●	CONTINUOUS CUTTING
	⊖	⊕	GENERAL CUTTING
	⊗	⊙	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
		Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
GRADE →		CUTTING SPEED										CUTTING SPEED		
DESIGNATION		200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230				
DESIGNATION		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2				
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">W1</div> </div>	DCGT 11T302-W1			●									0,10 - 0,30	0,3 - 3,0
	DCGT 11T304-W1			●									0,12 - 0,40	0,5 - 4,0
	DCGT 11T308-W1			●									0,15 - 0,50	0,5 - 4,0

CARBIDE	DN 1104	55°	CAST IRON
		DIAMOND	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

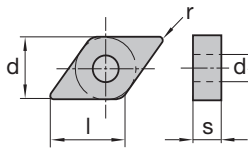
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Vc (M/MIN) CUTTING SPEED →		Cast iron Groupe										
			K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
MF	DNMG 110404-MF	C22-AB2	●																					0,11 - 0,40	0,6 - 4,0
	DNMG 110408-MF	C21-I1	●																						0,11 - 0,40

CARBIDE	DN	55°	CAST IRON
	1504	DIAMOND	
		0° NEGATIVE	

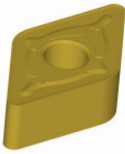
12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

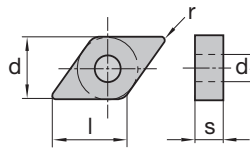
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE		PRIMARY USE	
			CONTINUOUS CUTTING	
			GENERAL CUTTING	
			INTERRUPTED CUTTING	

GEOMETRY ↓	DESIGNATION ↓	MACHINING MATERIAL GROUPE →										Cast iron Groupe	
		Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE ↓	AP (MM) DEPTH OF CUT ↓
		GRADE →											
MR 	DNMG 150408-MR											0,25 - 1,00	1,2 - 8,0
	DNMG 150412-MR											0,25 - 1,00	1,2 - 8,0

CARBIDE	DN	55°	CAST IRON
	1506	DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13

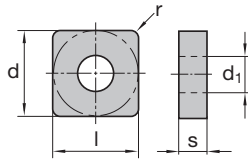
Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
○	●	CONTINUOUS CUTTING
⊖	⊕	GENERAL CUTTING
⊗	⊙	INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe				
			Vc (M/MIN) CUTTING SPEED →		F (MM/REV) FEED RATE		AP (MM) DEPTH OF CUT										
			200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230						
			C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2						
R7	DNMG 150608-R7	●													0,15 - 0,35	0,8 - 5,0	
MR	DNMG 150608-MR	●		●											0,25 - 1,00	1,2 - 8,0	
	DNMG 150612-MR	●		●											0,25 - 1,00	1,2 - 8,0	
-	DNMA 150608				●												
	DNMA 150612				●												

CARBIDE **SC** **09T3** **90°** **SQUARE** **7° POSITIVE** **CAST IRON**

9,52	d	INSCRIBED CIRCLE
9,52	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS

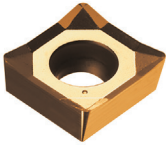


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
STAINLESS STEEL	M	
CAST IRON	K	
NON-FERROUS METAL	N	
EXOTIC ALLOY	S	
HARDENED STEEL	H	

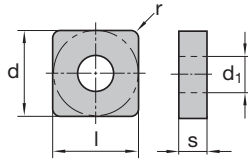
Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	○
⊖	⊖	⊖	GENERAL CUTTING
⊕	⊕	⊕	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
			Vc (M/MIN) CUTTING SPEED →		K1,2,3		K1,2,3		K1,2,3		K1,2,3		F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MF17	SCGT 09T304-MF17		200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230			0,08 - 0,25	0,6 - 4,0
	SCGT 09T308-MF17													0,10 - 0,35	0,7 - 4,0



CARBIDE	SC	90°	CAST IRON
	1204	SQUARE	
	7° POSITIVE		

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

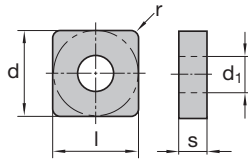
Machining Types	
○	●
⊖	⊕
⊗	⊙

SECONDARY USE PRIMARY USE
 CONTINUOUS CUTTING
 GENERAL CUTTING
 INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →										Cast iron Groupe				
			Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
			K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3			K1 - Grey cast iron K2 - Ductile cast iron (Vc -20%) K3 - Malleable cast iron Pearlitic structure Vc -25%		
M	SCMT 120408-M				●											0,15 - 0,50	0,8 - 8,0
	MF17	SCGT 120404-MF17			●			●								0,10 - 0,40	0,4 - 6,0
		SCGT 120408-MF17			●			●								0,10 - 0,40	0,4 - 6,0
	SCGT 120412-MF17			●												0,10 - 0,40	1,0 - 6,0

CARBIDE **SC** **2509** **90°** **SQUARE** **7° POSITIVE** **CAST IRON**

25,40	d	INSCRIBED CIRCLE
25,40	l	CUTTING EDGE LENGTH
9,52	s	THICKNESS

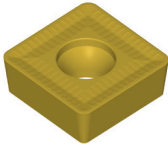


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,18	± 0,13	± 0,13	
U	± 0,38	± 0,25	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

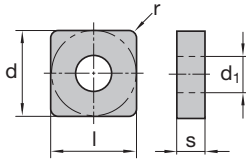
Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
R1	SCMT 250916-R1				●									0,40 - 1,60	2,0 - 12,5
	SCMT 250924-R1				●									0,40 - 1,60	2,0 - 12,5



CARBIDE	SN	90°	CAST IRON
	1204	SQUARE	
	0° NEGATIVE		

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

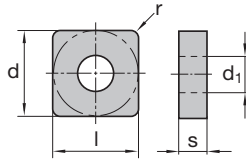
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	○	●	SECONDARY USE PRIMARY USE CONTINUOUS CUTTING GENERAL CUTTING INTERRUPTED CUTTING
	⊖	⊖	
	⊕	⊕	
	⊖	⊕	
	⊕	⊖	
	⊖	⊖	

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
			K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
			200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230					
R7	SNMG 120412-R7						●								0,25 - 0,65	1,0 - 6,0
MR	SNMG 120408-MR			●		●									0,25 - 1,00	1,2 - 10,0
	SNMG 120412-MR			●		●									0,25 - 1,00	1,2 - 10,0
-	SNMA 120408						●									
	SNMA 120412						●									
	SNMA 120416						●									

CARBIDE	SN 1906	90°	CAST IRON
		SQUARE	
		0° NEGATIVE	

19,05	d	INSCRIBED CIRCLE
19,05	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,15	± 0,10	± 0,13	
U	± 0,27	± 0,18	± 0,13	

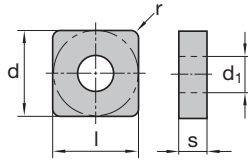
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →	Vc (M/MIN) CUTTING SPEED →	Cast iron Groupe										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
					K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3		
	SNMG 190612-MR			200-300											0,25 - 1,00	1,2 - 10,0
	SNMG 190616-MR			250-400											0,25 - 1,00	1,2 - 10,0
	SNMA 190616			150-210												

CARBIDE	SN 2507	90°	CAST IRON
		SQUARE	
		0° NEGATIVE	

25,40	d	INSCRIBED CIRCLE
25,40	l	CUTTING EDGE LENGTH
7,94	s	THICKNESS

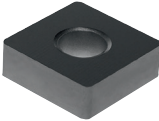
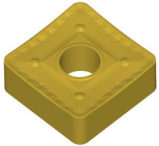


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,18	± 0,13	± 0,13	
U	± 0,38	± 0,25	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

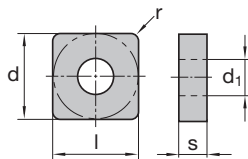
Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
			Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
			200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230					
			C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2					
R2	SNMM 250724-R2					●									0,40 - 1,60	2,0 - 12,5
-	SNMA 250724					●										



CARBIDE **SN 2509** **90°**
SQUARE
0° NEGATIVE **CAST IRON**

25,40	d	INSCRIBED CIRCLE
25,40	l	CUTTING EDGE LENGTH
9,52	s	THICKNESS

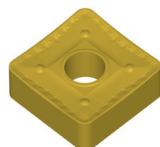


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,18	± 0,13	± 0,13	
U	± 0,38	± 0,25	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

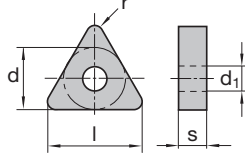
Machining Types	SECONDARY USE	PRIMARY USE
		GENERAL CUTTING
		INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
		Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
R2	SNMM 250924-R2	C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2					



CARBIDE **TC** **06T1** **60°**
TRIANGLE
7° POSITIVE **CAST IRON**

3,97	d	INSCRIBED CIRCLE
6,35	l	CUTTING EDGE LENGTH
1,98	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

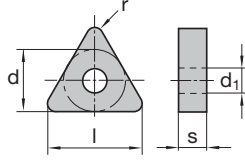
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
			Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230				
			C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2				
MF17 	TCGT 06T101-MF17				●			●						0,02 - 0,06	0,5 - 1,0
	TCGT 06T102-MF17				●			●						0,05 - 0,12	0,6 - 1,2
F12 	TCGT 06T102-F12				●			●						0,05 - 0,12	0,2 - 2,0

CARBIDE **TC 0902** **60°**
TRIANGLE
7° POSITIVE **CAST IRON**

5,56	d	INSCRIBED CIRCLE
9,60	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

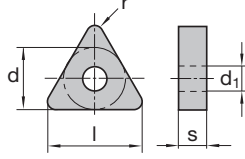
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
			Vc (M/MIN) CUTTING SPEED →		F (MM/REV) FEED RATE		AP (MM) DEPTH OF CUT								
MF17 	TCGT 090202-MF17		K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3			0,05 - 0,12	0,6 - 1,6
	TCGT 090204-MF17													0,08 - 0,16	0,6 - 1,6
F12 	TCGT 090202-F12													0,05 - 0,12	0,2 - 2,0

CARBIDE **TC 1102** **60°**
TRIANGLE
7° POSITIVE **CAST IRON**

6,35	d	INSCRIBED CIRCLE
11,00	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

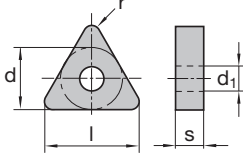
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
			Vc (M/MIN) CUTTING SPEED →		K1,2,3		K1,2,3		K1,2,3		K1,2,3		F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MF17 	TCGT 110201-MF17		200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230			0,02 - 0,06	0,5 - 1,5
	TCGT 110202-MF17	●												0,05 - 0,12	0,6 - 2,0
	TCGT 110204-MF17	●												0,08 - 0,25	0,6 - 3,0
F12 	TCGT 110201-F12													0,02 - 0,06	0,1 - 1,5
	TCGT 110202-F12	●												0,05 - 0,12	0,2 - 2,0
	TCGT 110204-F12	●												0,08 - 0,25	0,2 - 2,5

CARBIDE **TC 16T3** **60°**
TRIANGLE
7° POSITIVE **CAST IRON**

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

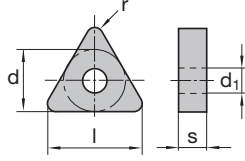
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
			Vc (M/MIN) CUTTING SPEED →		K1,2,3		K1,2,3		K1,2,3		K1,2,3		F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
	TCGT 16T302-MF17														0,05 - 0,12	0,5 - 2,0
	TCGT 16T304-MF17														0,08 - 0,25	0,6 - 4,0
	TCGT 16T308-MF17														0,10 - 0,35	0,8 - 4,0
	TCGT 16T301-F12														0,02 - 0,06	0,1 - 1,5
	TCGT 16T302-F12														0,05 - 0,12	0,2 - 2,0
	TCGT 16T304-F12														0,08 - 0,25	0,2 - 2,5

CARBIDE	TN	60°	CAST IRON
	1604	TRIANGLE	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

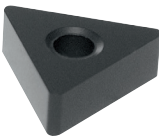
Machining Types	
○	●
⊖	⊕
⊗	⊙

SECONDARY USE PRIMARY USE

○ ● CONTINUOUS CUTTING

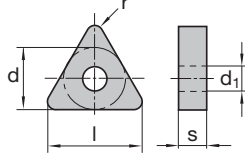
⊖ ⊕ GENERAL CUTTING

⊗ ⊙ INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
			Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			K1,2,3		K1,2,3		K1,2,3		K1,2,3		K1,2,3				
			200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230				
			C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2				
	TNMA 160408					●									
	TNMA 160412					●									

CARBIDE **TN 2204** **60°**
TRIANGLE
0° NEGATIVE **CAST IRON**

12,70	d	INSCRIBED CIRCLE
22,00	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

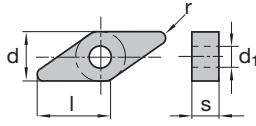
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
			Vc (M/MIN) CUTTING SPEED →		K1,2,3		K1,2,3		K1,2,3		K1,2,3		F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
	TNMA 220416	●	C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2					
			200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230					

CARBIDE **VC 0702** **35°**
DIAMOND
7° POSITIVE **CAST IRON**

3,97	d	INSCRIBED CIRCLE
6,85	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

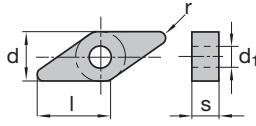
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

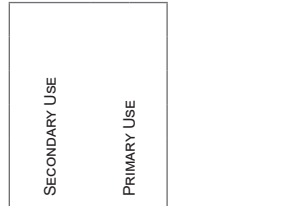
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe			
		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
	VC GT 0702005-MF17			●			●							0,02 - 0,06	0,2 - 1,0
	VC GT 070201-MF17			●			●							0,02 - 0,06	0,2 - 1,0
	VC GT 070202-MF17			●			●							0,05 - 0,08	0,2 - 1,0
	VC GT 070204-MF17			●			●							0,08 - 0,12	0,2 - 1,0
	VC GT 0702005-F12			●										0,02 - 0,06	0,1 - 1,0
	VC GT 070201-F12			●			●							0,02 - 0,06	0,1 - 1,0
	VC GT 070202-F12			●			●							0,05 - 0,08	0,2 - 1,0
	VC GT 070204-F12			●			●							0,08 - 0,12	0,2 - 1,0

CARBIDE **VC 1103** **35°**
DIAMOND
7° POSITIVE **CAST IRON**

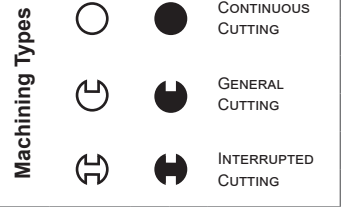
6,35	d	INSCRIBED CIRCLE
11,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



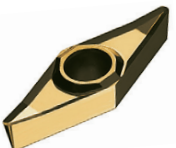



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	



MACHINING MATERIAL			Tolerance Classes											
	STEEL	P	○	●	○	●	○	●	○	●	○	●	○	●
STAINLESS STEEL	M		○		○		○		○		○		○	
CAST IRON	K	●	●	●	●	●	●	●	●	●	●	●	●	●
NON-FERROUS METAL	N													
EXOTIC ALLOY	S													
HARDENED STEEL	H													

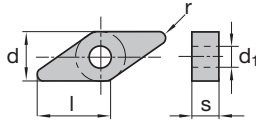


GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Cast iron Groupe				
		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2							F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
M10	VCMT 110308-M10									●							0,12 - 0,25	0,5 - 1,5
																		
MF7	VCMT 110304-MF7					●											0,08 - 0,20	0,4 - 1,5
																		
MF17	VCGT 1103005-MF17			●				●									0,02 - 0,06	0,5 - 1,5
	VCGT 110301-MF17			●				●									0,02 - 0,06	0,5 - 1,5
	VCGT 110302-MF17			●				●									0,05 - 0,12	0,5 - 2,0
	VCGT 110304-MF17			●				●									0,08 - 0,25	0,6 - 2,5
	VCGT 110308-MF17			●				●									0,10 - 0,35	0,8 - 3,0
F12	VCGT 1103005-F12			●				●									0,02 - 0,06	0,1 - 1,5
	VCGT 110301-F12			●				●									0,02 - 0,06	0,1 - 1,5
	VCGT 110302-F12			●				●									0,05 - 0,12	0,2 - 2,0
	VCGT 110304-F12			●				●									0,08 - 0,25	0,2 - 2,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **VC 1103** **35°**
DIAMOND
7° POSITIVE **CAST IRON**

6,35	d	INSCRIBED CIRCLE
11,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL		
STEEL	P	
STAINLESS STEEL	M	
CAST IRON	K	
NON-FERROUS METAL	N	
EXOTIC ALLOY	S	
HARDENED STEEL	H	

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
		GENERAL CUTTING	
		INTERRUPTED CUTTING	

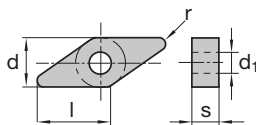
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
			Vc (M/MIN) CUTTING SPEED →		F (MM/REV) FEED RATE		AP (MM) DEPTH OF CUT								
W1 	VCGT 110302-W1		K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3			0,10 - 0,30	0,3 - 3,0
	VCGT 110304-W1													0,12 - 0,40	0,5 - 4,0

CARBIDE
VC
1303

35°
DIAMOND
7° POSITIVE

CAST IRON

7,94	d	INSCRIBED CIRCLE
13,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

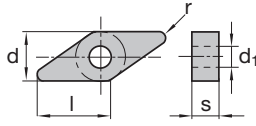
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe	
		Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		GRADE →											
		K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3	K1,2,3			
		200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230			
		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2			
MF17	VC GT 1303005-MF17			●								0,02 - 0,06	0,5 - 1,5
	VC GT 130301-MF17			●								0,02 - 0,06	0,5 - 1,5
	VC GT 130302-MF17			●			●					0,05 - 0,12	0,5 - 2,0
	VC GT 130304-MF17			●			●					0,08 - 0,25	0,6 - 3,0
	VC GT 130308-MF17			●			●					0,08 - 0,25	0,6 - 3,0
F12	VC GT 130301-F12			●			●					0,05 - 0,12	0,2 - 2,0
	VC GT 130302-F12			●			●					0,05 - 0,12	0,2 - 2,0
	VC GT 130304-F12			●			●					0,08 - 0,25	0,2 - 2,5

CARBIDE **VC 1604** **35°**
DIAMOND
7° POSITIVE **CAST IRON**

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P	○	●	○	●	○	⊕	⊖				
	STAINLESS STEEL	M		○		○	○		⊕				
	CAST IRON	K	●	●	●	●	●	●	⊖	⊖			
	NON-FERROUS METAL	N											
	EXOTIC ALLOY	S							⊕				
	HARDENED STEEL	H											

Machining Types

○	●	CONTINUOUS CUTTING
⊕	⊖	GENERAL CUTTING
⊕	⊖	INTERRUPTED CUTTING

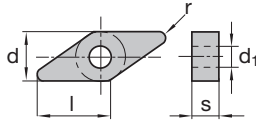
SECONDARY USE (○) PRIMARY USE (●)

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe				
		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2					F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
M10 	VCMT 160412-M10														0,12 - 0,32	0,5 - 2,0
MF7 	VCMT 160408-MF7	●													0,12 - 0,30	0,5 - 2,0
MF17 	VCGT 160401-MF17			●				●							0,02 - 0,06	0,5 - 1,5
	VCGT 160402-MF17			●				●							0,05 - 0,12	0,5 - 2,0
	VCGT 160404-MF17			●				●							0,08 - 0,25	0,6 - 3,5
	VCGT 160408-MF17			●				●							0,10 - 0,35	0,8 - 3,5
F12 	VCGT 160401-F12			●				●							0,05 - 0,12	0,2 - 2,0
	VCGT 160402-F12			●				●							0,05 - 0,12	0,2 - 2,0
	VCGT 160404-F12			●				●							0,08 - 0,25	0,2 - 2,5
	VCGT 160408-F12			●				●							0,10 - 0,30	0,3 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE VC 1604	35°	CAST IRON
	DIAMOND	
	7° POSITIVE	

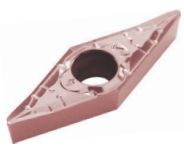
9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

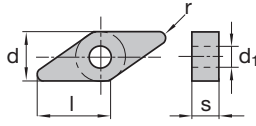
Machining Types	○	●	○	●	○	●	○	●	○	●
	○	●	○	●	○	●	○	●	○	●
	○	●	○	●	○	●	○	●	○	●
	○	●	○	●	○	●	○	●	○	●
	○	●	○	●	○	●	○	●	○	●
	○	●	○	●	○	●	○	●	○	●

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe				
		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
W1 	VC1604-W1			●											0,12 - 0,40	0,5 - 4,0
	VC1608-W1			●											0,15 - 0,50	0,7 - 4,0

CARBIDE **VC 2205** **35°**
DIAMOND
7° POSITIVE **CAST IRON**

12,70	d	INSCRIBED CIRCLE
22,10	l	CUTTING EDGE LENGTH
5,56	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

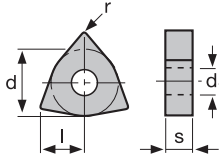
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe					
			VC (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT				
MF17	VC	GT	220520	MF17														
	VC	GT	220520	MF17													0,10 - 0,45	1,0 - 3,5
	VC	GT	220530	MF17													0,10 - 0,45	1,0 - 3,5

CARBIDE	WC 0201	80°	CAST IRON
		TRIGON	
		7° POSITIVE	

3,97	d	INSCRIBED CIRCLE
2,70	l	CUTTING EDGE LENGTH
1,59	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	CONTINUOUS CUTTING
⊖	⊖	GENERAL CUTTING	
⊕	⊕	INTERRUPTED CUTTING	

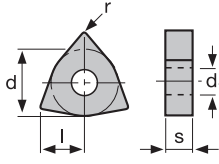
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

○		●		○	●	○	⊖	⊕													
		○			○	○		⊖													
●	●	●	●	●	●	●	●	●	●												

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe				
		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
MF17 	WCGT 0201005-MF17						●								0,05 - 0,12	0,5 - 1,5
	WCGT 020101-MF17						●								0,05 - 0,12	0,5 - 1,5
	WCGT 020102-MF17						●								0,05 - 0,12	0,5 - 1,5

CARBIDE **WC 0402** **80°**
TRIGON
7° POSITIVE **CAST IRON**

6,35	d	INSCRIBED CIRCLE
4,30	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

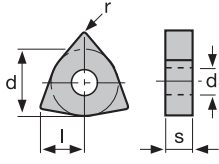
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
			Vc (M/MIN) CUTTING SPEED →		K1,2,3		K1,2,3		K1,2,3		K1,2,3		F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MF17 	WCGT 040202-MF17		200-300	250-400	150-210	250-400	200-300	130-200	150-230	200-260	150-230			0,05 - 0,12	0,5 - 2,0
	WCGT 040204-MF17													0,08 - 0,25	0,6 - 2,5
F12 	WCGT 040202-F12													0,05 - 0,12	0,2 - 2,0
	WCGT 040204-F12													0,08 - 0,25	0,2 - 2,5

CARBIDE	WC	80°	CAST IRON
	06T3	TRIGON	
		7° POSITIVE	


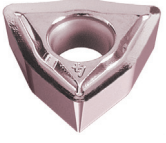
9,52	d	INSCRIBED CIRCLE
6,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

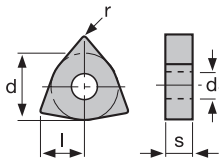
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe				
			Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
			C22-AB2 C21-I1 A22-A2 C31-J1 C22-AA2 A32-B2 C52-AD2 C42-AC2 A52-C2														
MF17 	WCGT 06T302-MF17															0,05 - 0,12	0,6 - 2,0
	WCGT 06T304-MF17															0,08 - 0,25	0,6 - 3,0
F12 	WCGT 06T304-F12															0,08 - 0,25	0,2 - 2,5

CARBIDE	WC	80°	CAST IRON
	0804	TRIGON	
		7° POSITIVE	

12,70	d	INSCRIBED CIRCLE
8,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

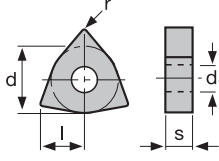
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Cast iron Groupe				
			Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
MF17 	WCGT 080404-MF17															0,08 - 0,25	0,6 - 4,0
	WCGT 080408-MF17																0,10 - 0,35
W1 	WCGT 080404-W1															0,12 - 0,40	0,5 - 4,0

CARBIDE	WN 0804	80°	CAST IRON
		TRIGON	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
8,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types		SECONDARY USE	PRIMARY USE
○	●	○	●
○	●	○	●
○	●	○	●
○	●	○	●

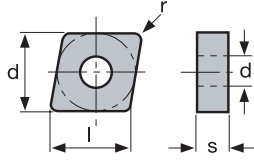
○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ○ INTERRUPTED CUTTING
 ● INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Cast iron Groupe		
		Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
GRADE →		CUTTING SPEED (M/MIN)										CUTTING SPEED (M/MIN)		
DESIGNATION		C22-AB2	C21-I1	A22-A2	C31-J1	C22-AA2	A32-B2	C52-AD2	C42-AC2	A52-C2	K1,2,3	K1,2,3	K1,2,3	K1,2,3
R7	WNMG 080408-R7	●											0,20 - 0,40	0,8 - 6,0
	WNMG 080412-R7	●											0,25 - 0,60	1,0 - 6,0
MR	WNMG 080408-MR		●	●									0,25 - 1,00	1,2 - 6,0
	WNMG 080412-MR			●									0,25 - 1,00	1,2 - 6,0
-	WNMA 080408			●										
	WNMA 080412			●										

CARBIDE **CC 0602** 80°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

6,35	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	
○	SECONDARY USE
●	PRIMARY USE
○	CONTINUOUS CUTTING
◐	GENERAL CUTTING
◑	INTERRUPTED CUTTING

MACHINING MATERIAL	GRADE
STEEL	P
STAINLESS STEEL	M
CAST IRON	K
NON-FERROUS METAL	N
EXOTIC ALLOY	S
HARDENED STEEL	H

Tolerance Classes		CLASS		m		d		s	

Machining Types	
○	SECONDARY USE
●	PRIMARY USE
○	CONTINUOUS CUTTING
◐	GENERAL CUTTING
◑	INTERRUPTED CUTTING

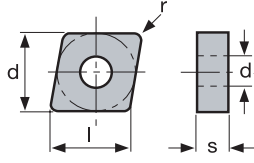
GEOMETRY	GRADE → DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe			
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MR 	CCGT 060202-MR			●			●							0,15 - 0,65	1,0 - 8,0
	CCGT 060204-MR			●			●							0,15 - 0,65	1,0 - 8,0
MF10 	CCGT 060201-MF10												●	0,02 - 0,06	0,1 - 0,5
	CCGT 060202-MF10												●	0,04 - 0,10	0,1 - 0,6
	CCGT 060204-MF10												●	0,06 - 0,12	0,2 - 0,6
MF15 	CCGT 0602005-MF15		●										●	0,02 - 0,06	0,1 - 0,5
	CCGT 060201-MF15		●										●	0,02 - 0,06	0,1 - 0,5
	CCGT 060202-MF15		●										●	0,04 - 0,10	0,1 - 0,6
	CCGT 060204-MF15		●										●	0,06 - 0,12	0,2 - 0,6
MF17 	CCGT 0602005-MF17			●	●		●	●		●	●		●	0,02 - 0,06	0,5 - 1,5
	CCGT 060201-MF17			●	●		●	●		●	●		●	0,02 - 0,06	0,5 - 1,5
	CCGT 060202-MF17			●	●		●	●		●	●		●	0,05 - 0,12	0,5 - 2,0
	CCGT 060204-MF17			●	●		●	●		●	●		●	0,08 - 0,25	0,6 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

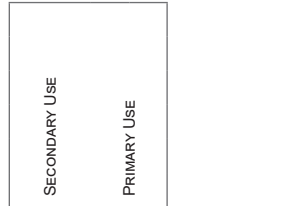
CARBIDE **CC 0602** 80°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

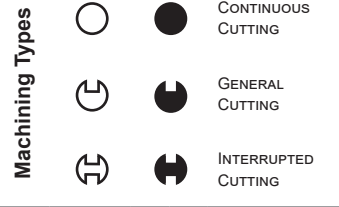
6,35	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	



MACHINING MATERIAL	MATERIAL		TOLERANCE CLASSES														
	STEEL	P	E	G	H	M	U	E	G	H	M	U	E	G	H	M	U
STEEL	P			⊕				⊕	⊕				⊕				
STAINLESS STEEL	M			⊕				⊕	⊕				⊕				
CAST IRON	K			⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
NON-FERROUS METAL	N		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EXOTIC ALLOY	S			⊕				⊕	⊕				⊕				
HARDENED STEEL	H			⊕				⊕	⊕				⊕				

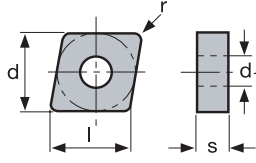


GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →												
		GRADE →												
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2		
F11 	CCGT 060201-F11									●	●		0,02 - 0,06	0,1 - 1,5
	CCGT 060202-F11									●	●		0,05 - 0,12	0,2 - 2,0
	CCGT 060204-F11										●		0,08 - 0,25	0,2 - 2,5
F12 	CCGT 0602005-F12				●	●		●		●			0,02 - 0,06	0,1 - 1,5
	CCGT 060201-F12				●	●		●		●			0,02 - 0,06	0,1 - 1,5
	CCGT 060202-F12				●	●		●		●	●		0,05 - 0,12	0,2 - 2,0
	CCGT 060204-F12				●	●		●		●			0,08 - 0,25	0,2 - 2,5
W1 	CCGT 060202-W1				●	●							0,10 - 0,30	0,3 - 3,0
	CCGT 060204-W1				●	●							0,12 - 0,40	0,5 - 4,0
	CCGT 060208-W1				●	●							0,15 - 0,50	0,7 - 4,0

CARBIDE **CC 09T3** 80°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes		CLASS	m	d	s
		E	± 0,025	± 0,025	± 0,025
		G	± 0,025	± 0,025	± 0,13
		H	± 0,013	± 0,013	± 0,025
		M	± 0,08	± 0,05	± 0,13
		U	± 0,13	± 0,08	± 0,13

GEOMETRY	GRADE → DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe			
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MR 	CCGT 09T302-MR			●			●							0,15 - 0,65	1,0 - 8,0
	CCGT 09T304-MR			●			●							0,15 - 0,65	1,0 - 8,0
	CCGT 09T308-MR			●			●							0,15 - 0,65	1,0 - 8,0
MF10 	CCGT 09T301-MF10											●		0,02 - 0,06	0,1 - 0,5
	CCGT 09T302-MF10											●		0,04 - 0,10	0,1 - 1,0
	CCGT 09T304-MF10											●		0,06 - 0,12	0,2 - 1,0
MF15 	CCGT 09T3005-MF15		●									●		0,02 - 0,06	0,1 - 0,5
	CCGT 09T301-MF15		●									●		0,02 - 0,06	0,1 - 0,5
	CCGT 09T302-MF15		●									●		0,04 - 0,10	0,1 - 1,0
	CCGT 09T304-MF15		●									●		0,06 - 0,12	0,2 - 1,0
MF17 	CCGT 09T3005-MF17					●								0,02 - 0,06	0,5 - 1,5
	CCGT 09T301-MF17			●	●			●	●			●	●	0,02 - 0,06	0,5 - 1,5
	CCGT 09T302-MF17			●	●			●	●			●	●	0,05 - 0,12	0,5 - 2,0
	CCGT 09T304-MF17			●	●			●	●			●	●	0,08 - 0,25	0,6 - 4,0
	CCGT 09T308-MF17			●	●			●	●			●	●	0,10 - 0,35	0,8 - 4,0

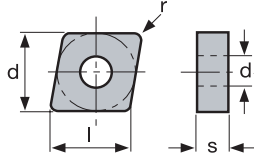
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **CC**
09T3

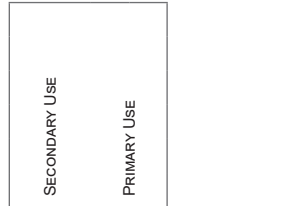
80°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

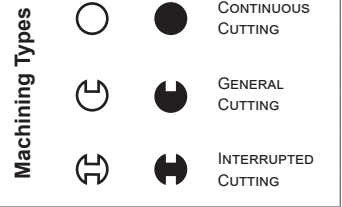
9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	



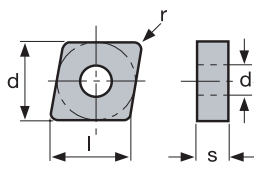
MACHINING MATERIAL	STEEL	P													
	STAINLESS STEEL	M													
	CAST IRON	K													
	NON-FERROUS METAL	N	●	●	●	●	●	●	●	●	●	●	●	●	●
	EXOTIC ALLOY	S													
	HARDENED STEEL	H													



GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
GRADE →		Vc (M/MIN) CUTTING SPEED →												
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2		
F11 	CCGT 09T302-F11									●	●		0,05 - 0,12	0,2 - 2,0
	CCGT 09T304-F11									●	●		0,08 - 0,25	0,2 - 2,5
F12 	CCGT 09T3005-F12				●	●		●	●		●		0,02 - 0,06	0,1 - 1,5
	CCGT 09T301-F12				●	●		●			●		0,02 - 0,06	0,1 - 1,5
	CCGT 09T302-F12				●	●		●			●		0,05 - 0,12	0,2 - 2,0
	CCGT 09T304-F12				●	●		●			●		0,08 - 0,25	0,2 - 2,5
	CCGT 09T308-F12				●	●		●			●		0,10 - 0,30	0,3 - 3,0
W1 	CCGT 09T302-W1				●	●							0,10 - 0,30	0,3 - 3,0
	CCGT 09T304-W1				●	●							0,12 - 0,40	0,5 - 4,0
	CCGT 09T308-W1				●	●							0,15 - 0,50	0,7 - 4,0

CARBIDE **CC** 1204 **80°**
DIAMOND
7° POSITIVE **NON-FERROUS METALS**

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

Machining Types	
○	●
◐	◑
◒	◓

MACHINING MATERIAL	STEEL	P
STAINLESS STEEL	M	
CAST IRON	K	
NON-FERROUS METAL	N	
EXOTIC ALLOY	S	
HARDENED STEEL	H	

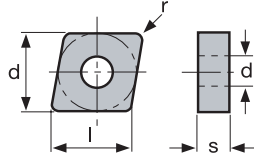
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,13	± 0,13
	H	± 0,013	± 0,025	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13

Machining Types	SECONDARY USE	PRIMARY USE
○	●	CONTINUOUS CUTTING
◐	◑	GENERAL CUTTING
◒	◓	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe			
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MR 	CCGT 120404-MR			●			●							0,15 - 0,65	1,0 - 8,0
	CCGT 120408-MR			●			●							0,15 - 0,65	1,0 - 8,0
MF17 	CCGT 120401-MF17				●	●		●	●		●	●		0,05 - 0,12	0,5 - 2,0
	CCGT 120402-MF17				●	●		●	●		●	●		0,05 - 0,12	0,5 - 2,0
	CCGT 120404-MF17				●	●		●	●		●	●		0,08 - 0,25	0,6 - 5,0
	CCGT 120408-MF17				●	●		●	●		●	●		0,10 - 0,35	0,8 - 5,0
W1 	CCGT 120404-W1				●	●								0,12 - 0,40	0,5 - 4,0
	CCGT 120408-W1				●	●								0,15 - 0,50	0,7 - 4,0

CARBIDE
CN 1204
80°
DIAMOND
0° NEGATIVE
NON-FERROUS METALS

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS

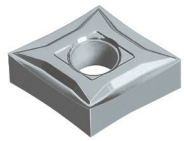


Tolerance Classes	CLASS	m		d		s	
	E	± 0,025	± 0,025	± 0,025	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,025	± 0,025	± 0,13	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,013	± 0,025	± 0,025	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13	± 0,13	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13	± 0,13	± 0,13	± 0,13

Machining Types	Secondary Use		Primary Use	
				GENERAL CUTTING
				INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

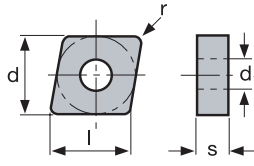
GEOMETRY ↓ F14	DESIGNATION ↓ CNGP 120402-F14 CNGP 120404-F14 CNGP 120408-F14	MACHINING MATERIAL GROUPE →											Non-ferrous materials Groupe			
		Vc (M/MIN) CUTTING SPEED →											D1 - Aluminium alloys (heat treated Vc -40%) D2 - Copper alloys (Vc -70%) D3 - Non-metallic materials (Vc -90%)			
		GRADE →											F (MM/REV) FEED RATE ↓	AP (MM) DEPTH OF CUT ↓		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1				
		650-2000	300-2500	400-2400	850-1300	300-2500	700-3000	850-1300	750-1200	300-2500	300-2500	750-1200	0,05 - 0,25	0,03 - 3,0		
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2				
										●						
										●						
										●						



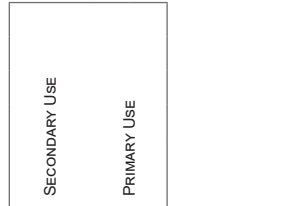
CARBIDE **CN 1606** 80°
DIAMOND
0° NEGATIVE

NON-FERROUS METALS

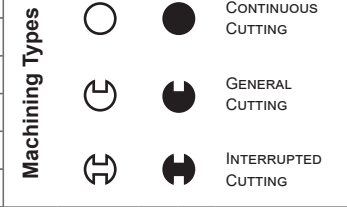
15,88	d	INSCRIBED CIRCLE
16,10	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,15	± 0,10	± 0,13	± 0,13
U	± 0,27	± 0,18	± 0,13	± 0,13



MACHINING MATERIAL	MATERIAL	Tolerance Classes													
		E	G	H	M	U	E	G	H	M	U	E	G	H	M
STEEL	P														
STAINLESS STEEL	M														
CAST IRON	K														
NON-FERROUS METAL	N	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EXOTIC ALLOY	S														
HARDENED STEEL	H														

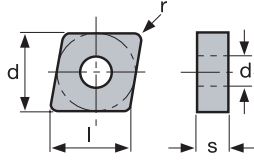


GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe				
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
MF17	CNGM 160612-MF17														0,10 - 0,35	0,8 - 6,0

Non-ferrous materials Groupe
D1 - Aluminium alloys (heat treated Vc -40%)
D2 - Copper alloys (Vc -70%)
D3 - Non-metallic materials (Vc -90%)

CARBIDE **CN 1906** **80°**
DIAMOND
0° NEGATIVE **NON-FERROUS METALS**

19,05	d	INSCRIBED CIRCLE
19,30	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,15	± 0,10	± 0,13	± 0,13
U	± 0,27	± 0,18	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P														
	STAINLESS STEEL	M														
	CAST IRON	K														
	NON-FERROUS METAL	N	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	EXOTIC ALLOY	S														
	HARDENED STEEL	H														

Machining Types

○	●	CONTINUOUS CUTTING
◐	◑	GENERAL CUTTING
◒	◓	INTERRUPTED CUTTING

SECONDARY USE PRIMARY USE

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe				
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
MF17	CNGM 190612-MF17														0,10 - 0,35	0,8 - 7,0

Vc (M/MIN) CUTTING SPEED →

GRADE →

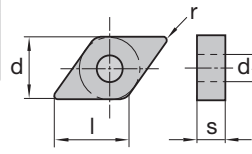
D22-AE2 **D22-AL2** **D21-K1** **D22-AF2** **D22-AK2** **D21-P1** **D42-AG2** **D42-AH2** **D42-AM2** **D42-AN2** **D42-AI2**

D1 - Aluminium alloys (heat treated Vc -40%)
D2 - Copper alloys (Vc -70%)
D3 - Non-metallic materials (Vc -90%)

CARBIDE **DC 0702** 55°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

6,35	d	INSCRIBED CIRCLE
7,70	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes		CLASS		m		d		s	

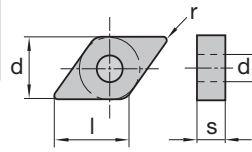
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
GRADE →		Vc (M/MIN) CUTTING SPEED →												
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2		
MR	DCGT 070202-MR			●			●						0,15 - 0,65	1,0 - 8,0
	DCGT 070204-MR			●			●						0,15 - 0,65	1,0 - 8,0
MF10	DCGT 0702005-MF10									●			0,02 - 0,06	0,1 - 0,5
	DCGT 0702008-MF10									●			0,02 - 0,06	0,1 - 0,5
	DCGT 0702015-MF10									●			0,02 - 0,06	0,1 - 0,5
	DCGT 070201-MF10									●			0,02 - 0,06	0,1 - 0,5
	DCGT 070202-MF10									●			0,04 - 0,10	0,1 - 0,6
	DCGT 070204-MF10									●			0,06 - 0,18	0,3 - 2,0
MF15	DCGT 0702005-MF15	●								●			0,02 - 0,06	0,1 - 0,5
	DCGT 0702008-MF15	●								●			0,02 - 0,06	0,1 - 0,5
	DCGT 0702015-MF15	●								●			0,02 - 0,06	0,1 - 0,5
	DCGT 070201-MF15	●								●			0,02 - 0,06	0,1 - 0,5
	DCGT 070202-MF15	●								●			0,04 - 0,10	0,1 - 0,6
	DCGT 070204-MF15	●								●			0,06 - 0,18	0,3 - 2,0
MF17	DCGT 0702005-MF17			●	●		●	●		●			0,02 - 0,06	0,5 - 1,5
	DCGT 070201-MF17			●	●		●	●		●	●		0,02 - 0,06	0,5 - 1,5
	DCGT 070202-MF17			●	●		●	●		●	●		0,05 - 0,12	0,5 - 2,0
	DCGT 070204-MF17			●	●		●	●		●	●		0,08 - 0,25	0,6 - 2,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **DC 0702** 55°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

6,35	d	INSCRIBED CIRCLE
7,70	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

Machining Types

○	●	CONTINUOUS CUTTING
◐	◑	GENERAL CUTTING
◒	◓	INTERRUPTED CUTTING

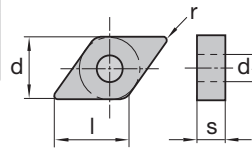
SECONDARY USE (○, ◐, ◒)
PRIMARY USE (●, ◑, ◓)

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
F11 	DCGT 0702008-F11								●				0,05 - 0,12	0,2 - 2,0
	DCGT 0702015-F11								●				0,05 - 0,12	0,2 - 2,0
	DCGT 070201-F11									●			0,02 - 0,06	0,1 - 1,5
	DCGT 070202-F11								●	●			0,05 - 0,12	0,2 - 2,0
	DCGT 070204-F11								●	●			0,08 - 0,25	0,2 - 2,5
F12 	DCGT 0702005-F12									●			0,02 - 0,06	0,1 - 1,5
	DCGT 0702008-F12								●				0,02 - 0,06	0,1 - 1,5
	DCGT 0702015-F12								●				0,05 - 0,12	0,2 - 2,0
	DCGT 070201-F12									●			0,02 - 0,06	0,1 - 1,5
	DCGT 070202-F12								●	●			0,05 - 0,12	0,2 - 2,0
	DCGT 070204-F12								●	●			0,08 - 0,25	0,2 - 2,5
W1 	DCGT 070202-W1			●	●								0,10 - 0,30	0,3 - 3,0
	DCGT 070204-W1			●	●								0,12 - 0,40	0,5 - 4,0
	DCGT 070208-W1			●	●								0,15 - 0,50	0,5 - 4,0

CARBIDE **DC 11T3** 55°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	SECONDARY USE		PRIMARY USE	
				GENERAL CUTTING
				INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

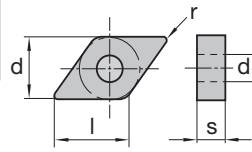
		D1,2		D1,2,3		D1,2		D1		D1,2,3		D1,2		D1		D1,2,3		D1,2,3		D1	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →												
		GRADE →												
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2		
MR 	DCGT 11T302-MR			●			●						0,15 - 0,65	1,0 - 8,0
	DCGT 11T304-MR			●			●						0,15 - 0,65	1,0 - 8,0
	DCGT 11T308-MR			●			●						0,15 - 0,65	1,0 - 8,0
MF10 	DCGT 11T3008-MF10									●			0,02 - 0,06	0,1 - 0,5
	DCGT 11T3015-MF10									●			0,02 - 0,06	0,1 - 0,5
	DCGT 11T301-MF10									●			0,02 - 0,06	0,1 - 0,5
	DCGT 11T302-MF10									●			0,04 - 0,10	0,1 - 0,6
	DCGT 11T304-MF10									●			0,08 - 0,20	0,3 - 2,0
MF15 	DCGT 11T3005-MF15	●								●			0,02 - 0,06	0,1 - 0,5
	DCGT 11T3008-MF15	●								●			0,02 - 0,06	0,1 - 0,5
	DCGT 11T3015-MF15									●			0,02 - 0,06	0,1 - 0,5
	DCGT 11T301-MF15			●						●			0,02 - 0,06	0,1 - 0,5
	DCGT 11T302-MF15			●						●			0,04 - 0,10	0,1 - 0,6
	DCGT 11T304-MF15			●						●			0,08 - 0,20	0,3 - 2,0
MF17 	DCGT 11T3005-MF17					●				●			0,02 - 0,06	0,5 - 1,5
	DCGT 11T301-MF17				●	●		●	●	●	●		0,02 - 0,06	0,5 - 1,5
	DCGT 11T302-MF17				●	●		●	●	●	●		0,05 - 0,12	0,5 - 2,0
	DCGT 11T304-MF17				●	●		●	●	●	●		0,08 - 0,25	0,6 - 3,0
	DCGT 11T308-MF17				●	●		●	●	●	●		0,10 - 0,30	0,8 - 3,5
	DCGT 11T312-MF17				●	●		●	●	●	●		0,10 - 0,30	0,8 - 3,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE **DC 11T3** 55° DIAMOND 7° POSITIVE **NON-FERROUS METALS**

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13



MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

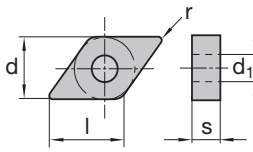
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	CONTINUOUS CUTTING
	◐	◑	GENERAL CUTTING
◒	◓	INTERRUPTED CUTTING	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
F11 	DCGT 11T3008-F11								●				0,05 - 0,12	0,2 - 2,0
	DCGT 11T3015-F11								●				0,05 - 0,12	0,2 - 2,0
	DCGT 11T301-F11										●		0,02 - 0,06	0,1 - 1,5
	DCGT 11T302-F11									●	●		0,05 - 0,12	0,2 - 2,0
	DCGT 11T304-F11									●	●		0,08 - 0,25	0,2 - 2,5
	DCGT 11T308-F11										●		0,10 - 0,30	0,3 - 3,0
F12 	DCGT 11T3005-F12				●	●		●		●		0,02 - 0,06	0,1 - 1,5	
	DCGT 11T3015-F12					●			●			0,05 - 0,12	0,2 - 2,0	
	DCGT 11T301-F12				●	●		●		●		0,02 - 0,06	0,1 - 1,5	
	DCGT 11T302-F12				●	●		●	●	●		0,05 - 0,12	0,2 - 2,0	
	DCGT 11T304-F12				●	●		●	●	●		0,08 - 0,25	0,2 - 2,5	
	DCGT 11T308-F12				●	●		●		●		0,10 - 0,30	0,3 - 3,0	
W1 	DCGT 11T302-W1				●	●						0,10 - 0,30	0,3 - 3,0	
	DCGT 11T304-W1				●	●						0,12 - 0,40	0,5 - 4,0	
	DCGT 11T308-W1				●	●						0,15 - 0,50	0,5 - 4,0	

CARBIDE **DN 1104** 55° DIAMOND 0° NEGATIVE **NON-FERROUS METALS**

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

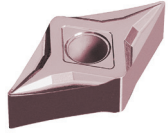
Machining Types

○	●	CONTINUOUS CUTTING
◐	◑	GENERAL CUTTING
◒	◓	INTERRUPTED CUTTING

SECONDARY USE PRIMARY USE

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Non-ferrous materials Groupe	
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
F14	DN110404-F14	650-2000	300-2500	400-2400	850-1300	300-2500	700-3000	850-1300	750-1200	300-2500	300-2500	750-1200		
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2	●	0,05 - 0,25

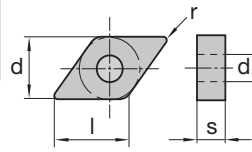
Non-ferrous materials Groupe
D1 - Aluminium alloys (heat treated Vc -40%)
D2 - Copper alloys (Vc -70%)
D3 - Non-metallic materials (Vc -90%)



CARBIDE **DN 1506** 55°
DIAMOND
0° NEGATIVE

NON-FERROUS METALS

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

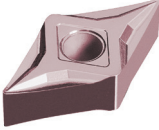
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13

Machining Types

○	●	CONTINUOUS CUTTING
◐	◑	GENERAL CUTTING
◒	◓	INTERRUPTED CUTTING

SECONDARY USE PRIMARY USE

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe				
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
F14 	DNGP 150604-F14														0,06 - 0,28	0,05 - 3,5
	DNGP 150608-F14														0,06 - 0,28	0,06 - 3,5

Vc (M/MIN) CUTTING SPEED →

GRADE →

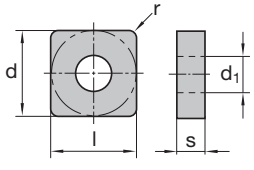
D1 - Aluminium alloys (heat treated Vc -40%)
D2 - Copper alloys (Vc -70%)
D3 - Non-metallic materials (Vc -90%)

CARBIDE **SC**
09T3

90°
SQUARE
7° POSITIVE

NON-FERROUS METALS

9,52	d	INSCRIBED CIRCLE
9,52	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

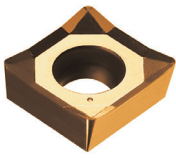
SECONDARY USE		PRIMARY USE	
○	○	●	●
◐	◐	◑	◑
◒	◒	◓	◓

MACHINING MATERIAL	STEEL	P	Tolerance Classes												
			E	G	H	M	U	E	G	H	M	U			
STAINLESS STEEL	M		⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
CAST IRON	K		⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
NON-FERROUS METAL	N		●	●	●	●	●	●	●	●	●	●	●	●	●
EXOTIC ALLOY	S		⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
HARDENED STEEL	H		⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

Machining Types

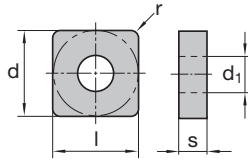
○	●	CONTINUOUS CUTTING
◐	◑	GENERAL CUTTING
◒	◓	INTERRUPTED CUTTING

GEOMETRY ↓	DESIGNATION ↓	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe			
		Vc (M/MIN) CUTTING SPEED →										F (MM/REV) FEED RATE ↓	AP (MM) DEPTH OF CUT ↓		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3			D1	
MF17	SCGT 09T304-MF17				●	●		●	●		●	●		0,08 - 0,25	0,6 - 4,0
	SCGT 09T308-MF17				●	●		●	●		●	●		0,10 - 0,35	0,7 - 4,0



CARBIDE **SC 1204** 90° SQUARE 7° POSITIVE **NON-FERROUS METALS**

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

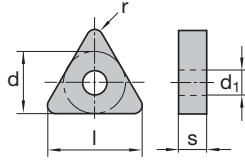
Machining Types	Machining Material		Machining Type	
	STEEL	NON-FERROUS METAL	SECONDARY USE	PRIMARY USE
○	○	○	○	●
◐	◐	◐	◐	◐
◑	◑	◑	◑	◑

MACHINING MATERIAL	STEEL	STAINLESS STEEL	CAST IRON	NON-FERROUS METAL	EXOTIC ALLOY	HARDENED STEEL
P	●	○	○	○	○	○
M	○	●	○	○	○	○
K	○	○	●	○	○	○
N	○	○	○	●	○	○
S	○	○	○	○	●	○
H	○	○	○	○	○	●

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe			
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MR	SCGT 120408-MR			●			●							0,15 - 0,65	1,0 - 8,0
MF17	SCGT 120404-MF17				●	●		●	●		●	●		0,10 - 0,40	0,4 - 6,0
	SCGT 120408-MF17				●	●		●	●		●	●		0,10 - 0,40	0,8 - 6,0
	SCGT 120412-MF17					●		●	●		●	●		0,10 - 0,40	1,0 - 6,0
	SCGT 120416-MF17				●	●					●	●		0,10 - 0,40	1,2 - 6,0

CARBIDE **TC** **06T1** **60°**
TRIANGLE
7° POSITIVE **NON-FERROUS METALS**

3,97	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
1,98	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	SECONDARY USE		PRIMARY USE	
				GENERAL CUTTING
				INTERRUPTED CUTTING

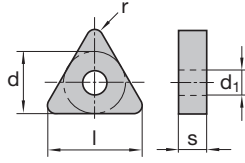
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes		CLASS		m		d		s	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe														
		D1,2		D1,2,3		D1,2		D1		D1,2,3		D1		F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT											
GRADE →		D22-AE2		D22-AL2		D21-K1		D22-AF2		D22-AK2		D21-P1		D42-AG2		D42-AH2		D42-AM2		D42-AN2		D42-AI2				
Vc (M/MIN) CUTTING SPEED →		650-2000		300-2500		400-2400		850-1300		300-2500		700-3000		850-1300		750-1200		300-2500		300-2500		750-1200				
MF17 	TCGT 06T101-MF17																								0,02 - 0,06	0,5 - 1,0
	TCGT 06T102-MF17																									0,05 - 0,12
F12 	TCGT 06T102-F12																								0,05 - 0,12	0,2 - 2,0

CARBIDE **TC 0902** 60° TRIANGLE 7° POSITIVE **NON-FERROUS METALS**

5,56	d	INSCRIBED CIRCLE
9,60	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

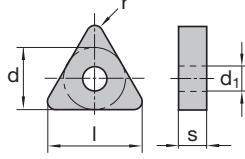
Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

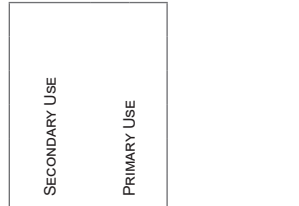
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
GRADE →		Vc (M/MIN) CUTTING SPEED →												
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2		
MF17 	TCGT 090202-MF17				●	●		●		●	●		0,05 - 0,12	0,6 - 1,6
	TCGT 090204-MF17				●	●		●	●	●	●		0,08 - 0,16	0,6 - 1,6
	TCGT 090208-MF17					●					●		0,08 - 0,16	0,6 - 1,6
F11 	TCGT 090202-F11										●		0,05 - 0,12	0,2 - 2,0
F12 	TCGT 090202-F12				●					●			0,05 - 0,12	0,6 - 1,6

CARBIDE **TC 1102** 60° TRIANGLE 7° POSITIVE **NON-FERROUS METALS**

6,35	d	INSCRIBED CIRCLE
11,00	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	



MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

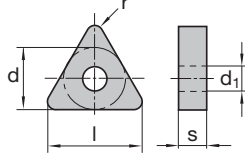
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
		INTERRUPTED CUTTING	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →												
		GRADE →												
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2		
MR	TCGT 110204-MR			●			●						0,15 - 0,65	1,0 - 8,0
MF17	TCGT 110201-MF17				●	●			●	●	●		0,02 - 0,06	0,5 - 1,5
	TCGT 110202-MF17				●	●		●	●	●	●		0,05 - 0,12	0,6 - 2,0
	TCGT 110204-MF17				●	●		●	●	●			0,08 - 0,25	0,6 - 3,0
F12	TCGT 110201-F12					●		●		●			0,02 - 0,06	0,1 - 1,5
	TCGT 110202-F12				●	●		●	●	●			0,05 - 0,12	0,2 - 2,0
	TCGT 110204-F12				●	●		●		●			0,08 - 0,25	0,2 - 2,5

CARBIDE **TC 16T3** 60° TRIANGLE 7° POSITIVE **NON-FERROUS METALS**

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



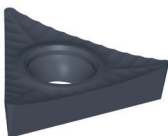

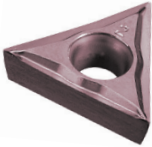
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	
○	SECONDARY USE
●	PRIMARY USE
○	CONTINUOUS CUTTING
◐	GENERAL CUTTING
◑	INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

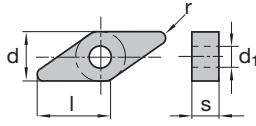
Tolerance Classes		CLASS		m		d		s	
		G		G	G			G	
		G		G	G	G		G	
●	●	●	●	●	●	●	●	●	●
	G		G	G	G	G	G	G	G
		G		G	G			G	

Machining Types	
○	SECONDARY USE
●	PRIMARY USE
○	CONTINUOUS CUTTING
◐	GENERAL CUTTING
◑	INTERRUPTED CUTTING

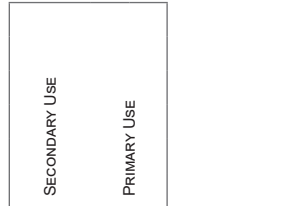
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
GRADE →		Vc (M/MIN) CUTTING SPEED →												
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2		
MR	TCGT 16T304-MR			●			●						0,15 - 0,65	1,0 - 8,0
														
MF17	TCGT 16T302-MF17				●	●		●	●		●	●	0,05 - 0,12	0,5 - 2,0
	TCGT 16T304-MF17				●	●		●	●		●	●	0,08 - 0,25	0,6 - 4,0
	TCGT 16T308-MF17				●	●		●	●		●	●	0,10 - 0,35	0,8 - 4,0
F12	TCGT 16T301-F12					●							0,02 - 0,06	0,1 - 1,5
	TCGT 16T302-F12							●			●		0,05 - 0,12	0,2 - 2,0
	TCGT 16T304-F12					●		●			●		0,08 - 0,25	0,2 - 2,5

CARBIDE **VC 0501** 35° DIAMOND 7° POSITIVE **NON-FERROUS METALS**

3,10	d	INSCRIBED CIRCLE
5,40	l	CUTTING EDGE LENGTH
1,59	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13



MACHINING MATERIAL	STEEL	P													
	STAINLESS STEEL	M													
	CAST IRON	K													
	NON-FERROUS METAL	N	●	●	●	●	●	●	●	●	●	●	●	●	●
	EXOTIC ALLOY	S													
	HARDENED STEEL	H													

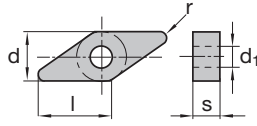
Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	CONTINUOUS CUTTING
	◐	◑	GENERAL CUTTING
◒	◓	INTERRUPTED CUTTING	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
GRADE →		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2		
Vc (M/MIN) CUTTING SPEED →		650-2000	300-2500	400-2400	850-1300	300-2500	700-3000	850-1300	750-1200	300-2500	300-2500	750-1200		
	VCGT 050101-MF17										●		0,020 - 0,06	0,10 - 1,0
	VCGT 050102-MF17										●		0,020 - 0,06	0,10 - 1,0
	VCGT 050104-MF17										●		0,050 - 0,08	0,20 - 1,0
	VCGT 050101-F10		●										0,04 - 0,15	0,05 - 1,0
	VCGT 050102-F10		●										0,04 - 0,20	0,1 - 2,5
	VCGT 050104-F10		●										0,05 - 0,16	0,1 - 1,5
	VCGT 050102-F11									●			0,020 - 0,06	0,10 - 1,0
	VCGT 050102-F12										●		0,020 - 0,06	0,10 - 1,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
VC 0702
35°
DIAMOND
7° POSITIVE
NON-FERROUS METALS

3,97	d	INSCRIBED CIRCLE
6,85	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

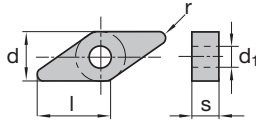
Tolerance Classes		CLASS		m		d		s	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2		D1,2,3		D1,2		D1		D1,2,3		D1		F (MM/REV) FEED RATE
		Vc (M/MIN) CUTTING SPEED →												
		GRADE →												
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2		
MF17 	VCGT 0702005-MF17				●	●		●	●		●	●	0,02 - 0,06	0,2 - 1,0
	VCGT 070201-MF17				●	●		●	●		●	●	0,02 - 0,06	0,2 - 1,0
	VCGT 070202-MF17				●	●		●	●		●	●	0,05 - 0,08	0,2 - 1,0
	VCGT 070204-MF17				●	●		●	●		●	●	0,08 - 0,12	0,2 - 1,0
F11 	VCGT 070202-F11										●		0,05 - 0,08	0,2 - 1,0
	VCGT 070204-F11										●		0,08 - 1,20	0,2 - 1,0
F12 	VCGT 0702005-F12					●							0,02 - 0,06	0,1 - 1,0
	VCGT 070201-F12				●	●		●			●		0,02 - 0,06	0,1 - 1,0
	VCGT 070202-F12				●	●		●			●		0,05 - 0,08	0,2 - 1,0
	VCGT 070204-F12				●	●		●			●		0,08 - 1,20	0,2 - 1,0

CARBIDE **VC 1103** 35°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

6,35	d	INSCRIBED CIRCLE
11,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

SECONDARY USE	PRIMARY USE
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

MACHINING MATERIAL	STEEL	P										
	STAINLESS STEEL	M										
	CAST IRON	K										
	NON-FERROUS METAL	N	●	●	●	●	●	●	●	●	●	●
	EXOTIC ALLOY	S										
	HARDENED STEEL	H										

Machining Types

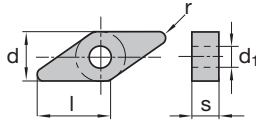
<input type="radio"/>	<input type="radio"/>	CONTINUOUS CUTTING
<input type="radio"/>	<input type="radio"/>	GENERAL CUTTING
<input type="radio"/>	<input type="radio"/>	INTERRUPTED CUTTING

GEOMETRY	GRADE → DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
MR 	VCGT 110302-MR			●			●						0,15 - 0,65	1,0 - 8,0
	VCGT 110304-MR			●			●						0,15 - 0,65	1,0 - 8,0
MF10 	VCGT 1103008-MF10										●		0,040 - 0,10	0,10 - 1,0
	VCGT 1103015-MF10										●		0,040 - 0,10	0,10 - 1,0
	VCGT 110301-MF10										●		0,040 - 0,10	0,10 - 1,0
	VCGT 110302-MF10										●		0,040 - 0,10	0,20 - 1,5
	VCGT 110304-MF10										●		0,060 - 0,18	0,30 - 2,0
MF15 	VCGT 1103005-MF15		●								●		0,04 - 0,10	0,1 - 1,0
	VCGT 1103008-MF15		●								●		0,04 - 0,10	0,1 - 1,0
	VCGT 1103015-MF15		●								●		0,04 - 0,10	0,1 - 1,0
	VCGT 110301-MF15		●		●						●		0,04 - 0,10	0,1 - 1,0
	VCGT 110302-MF15		●		●						●		0,04 - 0,10	0,2 - 1,5
	VCGT 110304-MF15		●								●		0,06 - 0,18	0,3 - 2,0
MF17 	VCGT 1103005-MF17				●	●		●			●		0,02 - 0,06	0,5 - 1,5
	VCGT 110301-MF17				●	●		●	●		●	●	0,02 - 0,06	0,5 - 1,5
	VCGT 110302-MF17				●	●		●	●		●	●	0,05 - 0,12	0,5 - 2,0
	VCGT 110304-MF17				●	●		●	●		●	●	0,08 - 0,25	0,6 - 2,5
	VCGT 110308-MF17				●	●		●	●		●	●	0,10 - 0,35	0,8 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE
VC 1103
35°
DIAMOND
7° POSITIVE
NON-FERROUS METALS

6,35	d	INSCRIBED CIRCLE
11,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



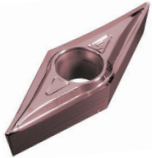
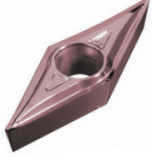
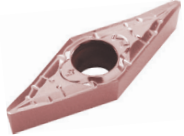
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Secondary Use	Primary Use
○	●
⊖	⊕
⊗	⊙

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes		CLASS		m		d		s	
●	●	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
●	●	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
●	●	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
●	●	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
●	●	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖

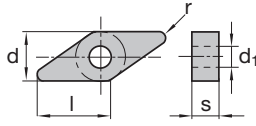
Machining Types	
○	●
⊖	⊕
⊗	⊙

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe			
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
	VCGT 1103008-F11													0,020 - 0,06	0,10 - 1,5
	VCGT 1103015-F11													0,05 - 0,12	0,2 - 2,0
	VCGT 110301-F11													0,02 - 0,06	0,1 - 1,5
	VCGT 110302-F11													0,05 - 0,12	0,2 - 2,0
	VCGT 110304-F11													0,08 - 0,25	0,2 - 2,5
	VCGT 1103005-F12				●	●		●					0,02 - 0,06	0,1 - 1,5	
	VCGT 1103008-F12					●				●			0,02 - 0,06	0,1 - 1,5	
	VCGT 1103015-F12					●				●			0,05 - 0,12	0,2 - 2,0	
	VCGT 110301-F12				●	●		●			●		0,02 - 0,06	0,1 - 1,5	
	VCGT 110302-F12				●	●		●			●	●	0,05 - 0,12	0,2 - 2,0	
	VCGT 110304-F12				●	●		●			●	●	0,08 - 0,25	0,2 - 2,5	
	VCGT 110302-W1				●	●							0,10 - 0,30	0,3 - 3,0	
	VCGT 110304-W1				●	●							0,12 - 0,40	0,5 - 4,0	

CARBIDE **VC 1303** 35°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

7,94	d	INSCRIBED CIRCLE
13,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

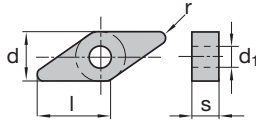
		D1,2		D1,2,3		D1,2		D1		D1,2,3		D1,2,3		D1	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
	VCGT 1303005-MF17				●	●		●					0,02 - 0,06	0,5 - 1,5
	VCGT 130301-MF17				●	●		●					0,02 - 0,06	0,5 - 1,5
	VCGT 130302-MF17				●	●		●	●		●	●	0,05 - 0,12	0,5 - 2,0
	VCGT 130304-MF17				●	●		●	●		●	●	0,08 - 0,25	0,6 - 3,0
	VCGT 130308-MF17				●	●		●	●		●	●	0,08 - 0,25	0,6 - 3,0
	VCGT 130302-F11											●	0,05 - 0,12	0,2 - 2,0
	VCGT 130304-F11											●	0,08 - 0,25	0,2 - 2,5
	VCGT 1303005-F12					●						●	0,05 - 0,12	0,2 - 2,0
	VCGT 130301-F12				●	●		●			●		0,05 - 0,12	0,2 - 2,0
	VCGT 130302-F12				●	●		●			●		0,05 - 0,12	0,2 - 2,0
	VCGT 130304-F12				●	●		●			●		0,08 - 0,25	0,2 - 2,5

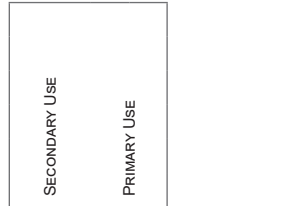
CARBIDE **VC 1604** 35°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	



MACHINING MATERIAL	MATERIAL		TOLERANCE CLASSES										Machining Types					
	Symbol	Grade	E	G	H	M	U	E	G	H	M	U	E	G	H	Secondary Use	Primary Use	Application
STEEL	P																	CONTINUOUS CUTTING
STAINLESS STEEL	M																	CONTINUOUS CUTTING
CAST IRON	K																	CONTINUOUS CUTTING
NON-FERROUS METAL	N																	CONTINUOUS CUTTING
EXOTIC ALLOY	S																	CONTINUOUS CUTTING
HARDENED STEEL	H																	CONTINUOUS CUTTING

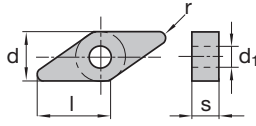
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
MR 	VCGT 160402-MR			●			●						0,15 - 0,65	1,0 - 8,0
	VCGT 160404-MR			●			●						0,15 - 0,65	1,0 - 8,0
	VCGT 160408-MR			●			●						0,15 - 0,65	1,0 - 8,0
	VCGT 160412-MR			●			●						0,15 - 0,65	1,0 - 8,0
MF10 	VCGT 160401-MF10										●		0,040 - 0,10	0,10 - 1,0
	VCGT 160402-MF10										●		0,040 - 0,10	0,20 - 1,5
	VCGT 160404-MF10										●		0,080 - 0,20	0,30 - 2,0
MF15 	VCGT 1604005-MF15		●									●	0,04 - 0,10	0,1 - 1,0
	VCGT 160401-MF15		●									●	0,04 - 0,10	0,1 - 1,0
	VCGT 160402-MF15		●									●	0,04 - 0,10	0,2 - 1,5
	VCGT 160404-MF15		●									●	0,08 - 0,20	0,3 - 2,0
MF17 	VCGT 160401-MF17			●	●		●	●		●	●		0,02 - 0,06	0,5 - 1,5
	VCGT 160402-MF17			●	●		●	●		●	●		0,05 - 0,12	0,5 - 2,0
	VCGT 160404-MF17			●	●		●	●		●	●		0,08 - 0,25	0,6 - 3,5
	VCGT 160408-MF17			●	●		●	●		●	●		0,10 - 0,35	0,8 - 3,5
	VCGT 160412-MF17			●	●		●	●		●	●		0,10 - 0,45	1,0 - 3,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

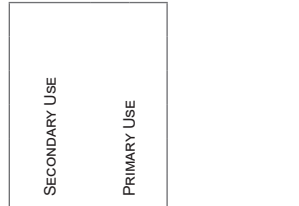
CARBIDE **VC 1604** 35°
DIAMOND
7° POSITIVE

NON-FERROUS METALS

9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS

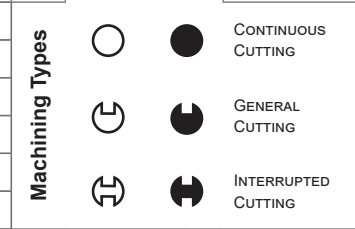


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13



MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

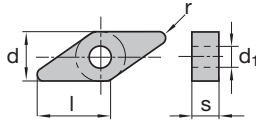
		D1,2		D1,2,3		D1,2		D1		D1,2,3		D1,2		D1	
		⊕		⊕		⊕		⊕		⊕		⊕		⊕	
		⊕		⊕		⊕		⊕		⊕		⊕		⊕	
		⊕		⊕		⊕		⊕		⊕		⊕		⊕	
		⊕		⊕		⊕		⊕		⊕		⊕		⊕	
		⊕		⊕		⊕		⊕		⊕		⊕		⊕	



GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →		Vc (M/MIN) CUTTING SPEED →		Non-ferrous materials Groupe										F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	D1	D1	D1,2,3			D1,2,3	D1	
	VCGT 160402-F11																	0,05 - 0,12	0,2 - 2,0	
	VCGT 160404-F11																		0,08 - 0,25	0,2 - 2,5
	VCGT 160408-F11																		0,10 - 0,30	0,3 - 3,0
	VCGT 160401-F12				●	●		●					●						0,05 - 0,12	0,2 - 2,0
	VCGT 160402-F12				●	●		●					●						0,05 - 0,12	0,2 - 2,0
	VCGT 160404-F12				●	●		●					●	●					0,08 - 0,25	0,2 - 2,5
	VCGT 160408-F12				●	●		●					●						0,10 - 0,30	0,3 - 3,0
	VCGT 160404-W1				●	●													0,12 - 0,40	0,5 - 4,0
	VCGT 160408-W1				●	●													0,15 - 0,50	0,7 - 4,0

CARBIDE
VC 2205
35°
DIAMOND
7° POSITIVE
NON-FERROUS METALS

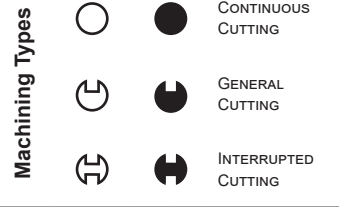
12,70	d	INSCRIBED CIRCLE
22,10	l	CUTTING EDGE LENGTH
5,56	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,025	± 0,13
H	± 0,013	± 0,013	± 0,013	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13



MACHINING MATERIAL	MACHINING MATERIAL		Tolerance Classes											
	STEEL	P	[Grid of tolerance class symbols]											
STAINLESS STEEL	M	[Grid of tolerance class symbols]												
CAST IRON	K	[Grid of tolerance class symbols]												
NON-FERROUS METAL	N	[Grid of tolerance class symbols]												
EXOTIC ALLOY	S	[Grid of tolerance class symbols]												
HARDENED STEEL	H	[Grid of tolerance class symbols]												

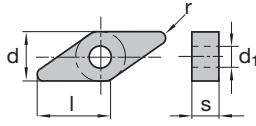


GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		Vc (M/MIN) CUTTING SPEED →		[Material Groups]								F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
GRADE →		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2		
MR	VC GT 220530-MR			●			●						0,15 - 0,65	1,0 - 8,0
MF17	VC GT 220520-MF17					●				●	●		0,10 - 0,45	1,0 - 3,5
	VC GT 220530-MF17			●	●		●	●		●	●		0,10 - 0,45	1,0 - 3,5

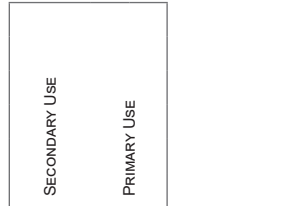
CARBIDE **VN 1604** 35°
DIAMOND
0° NEGATIVE

NON-FERROUS METALS

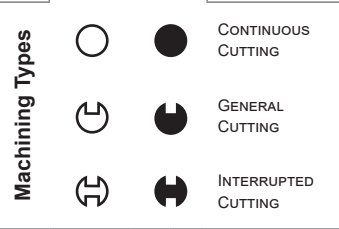
9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13



MACHINING MATERIAL	GRADE	Tolerance Classes															
		E	G	H	M	U	E	G	H	M	U	E	G	H	M	U	
STEEL	P				☺				☺	☺				☺			
STAINLESS STEEL	M				☺				☺	☺				☺			
CAST IRON	K			☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
NON-FERROUS METAL	N	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EXOTIC ALLOY	S			☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
HARDENED STEEL	H				☺				☺	☺				☺			

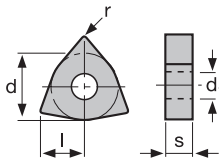


GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Non-ferrous materials Groupe													
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT											
F14	VNGP 160404-F14	D22-AE2	650-2000	D22-AL2	300-2500	D21-K1	400-2400	D22-AF2	850-1300	D22-AK2	300-2500	D21-P1	700-3000	D42-AG2	850-1300	D42-AH2	750-1200	D42-AM2	300-2500	D42-AN2	300-2500	D42-AI2	750-1200			0,05 - 0,25	0,05 - 3,5
																			●								

Non-ferrous materials Groupe
D1 - Aluminium alloys (heat treated Vc -40%)
D2 - Copper alloys (Vc -70%)
D3 - Non-metallic materials (Vc -90%)

CARBIDE **WC 0201** 80° TRIGON 7° POSITIVE **NON-FERROUS METALS**

3,97	d	INSCRIBED CIRCLE
2,70	l	CUTTING EDGE LENGTH
1,59	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

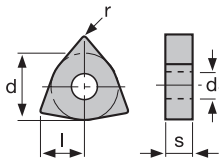
Machining Types	Machining Types	
	SECONDARY USE	PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe						
			Vc (M/MIN) CUTTING SPEED →		D1.2		D1.2,3		D1.2		D1		D1.2,3		D1		F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MF17	WCGT 0201005-MF17																	0,05 - 0,12	0,5 - 1,5
	WCGT 020101-MF17																	0,05 - 0,12	0,5 - 1,5
	WCGT 020102-MF17																	0,05 - 0,12	0,5 - 1,5

CARBIDE **WC 0402** 80° TRIGON 7° POSITIVE **NON-FERROUS METALS**

6,35	d	INSCRIBED CIRCLE
4,30	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

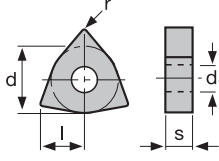
Machining Types	SECONDARY USE	PRIMARY USE
		GENERAL CUTTING
		INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
STAINLESS STEEL	M	
CAST IRON	K	
NON-FERROUS METAL	N	
EXOTIC ALLOY	S	
HARDENED STEEL	H	

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe			
		D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
GRADE →		Vc (M/MIN) CUTTING SPEED →										D1 - Aluminium alloys (heat treated Vc -40%)			
D22-AE2		D2 - Copper alloys (Vc -70%)										D3 - Non-metallic materials (Vc -90%)			
MF17 	WCGT 040201-MF17				●	●								0,05 - 0,12	0,5 - 2,0
	WCGT 040202-MF17									●		●	●	0,05 - 0,12	0,5 - 2,0
	WCGT 040204-MF17				●	●		●	●		●	●		0,08 - 0,25	0,6 - 2,5
F12 	WCGT 040202-F12				●			●				●		0,05 - 0,12	0,2 - 2,0
	WCGT 040204-F12				●	●								0,08 - 0,25	0,2 - 2,5
W1 	WCGT 040204-W1				●	●								0,08 - 0,20	0,2 - 1,2
	WCGT 040208-W1				●	●								0,08 - 0,20	0,2 - 1,2

CARBIDE **WC 06T3** 80° TRIGON 7° POSITIVE **NON-FERROUS METALS**

9,52	d	INSCRIBED CIRCLE
6,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

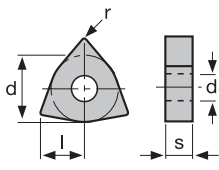
Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
MR 	WCGT 06T302-MR						●						0,15 - 0,65	1,0 - 8,0
	WCGT 06T304-MR			●			●						0,15 - 0,65	1,0 - 8,0
	WCGT 06T308-MR			●			●						0,15 - 0,65	1,0 - 8,0
MF17 	WCGT 06T301-MF17					●			●	●			0,05 - 0,12	0,6 - 2,0
	WCGT 06T302-MF17				●	●		●	●	●	●		0,05 - 0,12	0,6 - 2,0
	WCGT 06T304-MF17				●	●		●	●	●	●		0,08 - 0,25	0,6 - 3,0
F12 	WCGT 06T301-F12					●							0,02 - 0,06	0,1 - 1,5
	WCGT 06T302-F12				●	●							0,05 - 0,12	0,2 - 2,0
	WCGT 06T304-F12				●	●		●		●			0,08 - 0,25	0,2 - 2,5

CARBIDE **WC 0804** 80° TRIGON 7° POSITIVE **NON-FERROUS METALS**

12,70	d	INSCRIBED CIRCLE
8,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

SECONDARY USE	PRIMARY USE
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

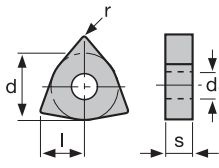
		D1,2		D1,2,3		D1,2		D1		D1,2,3		D1	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Machining Types	
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe		
		D22-AE2	D22-AL2	D21-K1	D22-AF2	D22-AK2	D21-P1	D42-AG2	D42-AH2	D42-AM2	D42-AN2	D42-AI2	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
MR 	WCGT 080404-MR						●						0,15 - 0,65	1,0 - 8,0
	WCGT 080408-MR			●			●						0,15 - 0,65	1,0 - 8,0
MF17 	WCGT 080404-MF17				●	●		●	●		●	●	0,08 - 0,25	0,6 - 4,0
	WCGT 080408-MF17				●	●			●				0,10 - 0,35	0,8 - 4,0
W1 	WCGT 080404-W1				●	●							0,12 - 0,40	0,5 - 4,0

CARBIDE **WN 0804** 80° TRIGON 0° NEGATIVE **NON-FERROUS METALS**

12,70	d	INSCRIBED CIRCLE
8,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

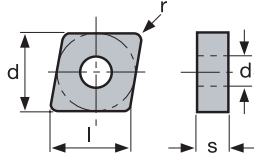
Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Non-ferrous materials Groupe			
			D1,2	D1,2,3	D1,2	D1	D1,2,3	D1,2	D1	D1	D1,2,3	D1,2,3	D1	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
F14 	WNGP 080404-F14		650-2000	300-2500	400-2400	850-1300	300-2500	700-3000	850-1300	750-1200	300-2500	300-2500	750-1200		0,05 - 0,25	0,05 - 3,5
	WNGP 080408-F14														0,05 - 0,25	0,05 - 4,0

Non-ferrous materials Groupe
D1 - Aluminium alloys (heat treated Vc -40%)
D2 - Copper alloys (Vc -70%)
D3 - Non-metallic materials (Vc -90%)

CARBIDE	CC 0602	80°	<h1>EXOTIC ALLOY</h1>
		DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P												
	STAINLESS STEEL	M	○	●	○	○	●	●	●	●	○	○	○	○
	CAST IRON	K	○	●							○	○	○	○
	NON-FERROUS METAL	N	○				●	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	●	●	●	●	●	●	●	●	●	●	●	●
	HARDENED STEEL	H	○		●			○	○		○	○	○	○

Machining Types

○	●	CONTINUOUS CUTTING
○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING

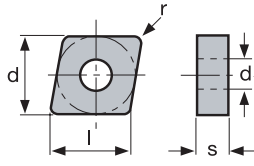
SECONDARY USE (○) PRIMARY USE (●)

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe	
			S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35		
M11 	CCMT 060202-M11		●							●					0,05 - 0,20	0,2 - 1,5
	CCMT 060204-M11		●							●					0,06 - 0,20	0,2 - 1,5
MF17 	CCGT 060204-MF17			●											0,08 - 0,25	0,6 - 3,0
F10 	CCMT 060202-F10		●							●					0,04 - 0,12	0,1 - 1,0
	CCMT 060204-F10		●							●					0,05 - 0,16	0,1 - 1,5
F11 	CCGT 060201-F11									●					0,02 - 0,06	0,1 - 1,5
	CCGT 060202-F11									●					0,05 - 0,12	0,2 - 2,0
	CCGT 060204-F11									●					0,08 - 0,25	0,2 - 2,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CC 0602	80°	<h1>EXOTIC ALLOY</h1>
		DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
6,40	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P	○	●															
	STAINLESS STEEL	M	●	○		○	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	●							○	○	○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○								●	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HARDENED STEEL	H	○			●					○	○	○	○	○	○	○	○	○

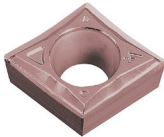
Machining Types

○	●	CONTINUOUS CUTTING
○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING

SECONDARY USE (○) PRIMARY USE (●)

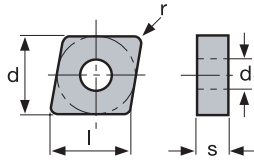
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe		
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
F12	CCGT 060202-F12		15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	0,05 - 0,12	0,2 - 2,0
	CCGT 060204-F12		S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	0,08 - 0,25	0,2 - 2,5

Exotic alloy Groupe
S1 - High temperature resistant alloys
S2 - Pure titanium (Vc +100%)
S3 - Titanium alloys



CARBIDE	CC 09T3	80°	<h1>EXOTIC ALLOY</h1>
		DIAMOND	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P																					
	STAINLESS STEEL	M																					
	CAST IRON	K																					
	NON-FERROUS METAL	N																					
	EXOTIC ALLOY	S																					
	HARDENED STEEL	H																					

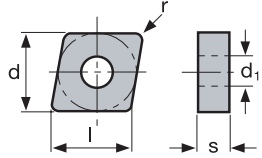
Machining Types		SECONDARY USE
		PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
	INTERRUPTED CUTTING	

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe													
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT												
M2	CCMT 09T304-M2		B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	0,20 - 0,45	1,0 - 5,0
					●							●																
M11	CCMT 09T302-M11		●										●															
	CCMT 09T304-M11		●										●															
MF17	CCGT 09T304-MF17				●																							
F10	CCMT 09T302-F10		●										●															
	CCMT 09T304-F10		●										●															

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CC	80°	EXOTIC ALLOY
	09T3	DIAMOND	
	7° POSITIVE		

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes	MACHINING MATERIAL											
	P	M	K	N	S	H	Steel	Stainless Steel	Cast Iron	Non-Ferrous Metal	Exotic Alloy	Hardened Steel
E	○	●					●	●	○	○	○	○
G	●	○			○	○	●	●	●	●	●	●
H	○	●										
M	○						●	○	○	○	○	○
U	●	●	●	●	●	●	●	●	●	●	●	●

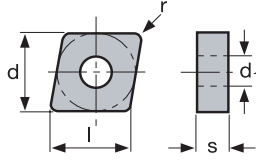
Machining Types		SECONDARY USE	PRIMARY USE
○	●	○	●
○	●	○	●
○	●	○	●
○	●	○	●

○ CONTINUOUS CUTTING
 ● GENERAL CUTTING
 ○ INTERRUPTED CUTTING
 ● INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe					
		Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT				
GRADE →		S1,2,3												S1 - High temperature resistant alloys					
DESIGNATION		S1												S2 - Pure titanium (Vc +100%)					
DESIGNATION		S2,3												S3 - Titanium alloys					
DESIGNATION		S3												F (MM/REV) FEED RATE					
DESIGNATION		S1												AP (MM) DEPTH OF CUT					
DESIGNATION		S1,2,3												F (MM/REV) FEED RATE					
DESIGNATION		S1,2,3												AP (MM) DEPTH OF CUT					
F11 	CCGT 09T302-F11																	0,05 - 0,12	0,2 - 2,0
	CCGT 09T304-F11																		0,08 - 0,25
F12 	CCGT 09T304-F12	●																0,08 - 0,25	0,2 - 2,5
	CCGT 09T308-F12	●																0,10 - 0,30	0,3 - 3,0

CARBIDE	CC 1204	80°	EXOTIC ALLOY
		DIAMOND	
		7° POSITIVE	

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



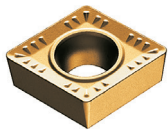
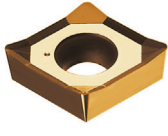
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P	Tolerance Classes																			
	STAINLESS STEEL	M	○	●					●	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	●																		
	NON-FERROUS METAL	N	○						●	○	○	○	○	○	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HARDENED STEEL	H	○			●				○	○											

Machining Types

○	●	CONTINUOUS CUTTING
○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING

SECONDARY USE (○) PRIMARY USE (●)

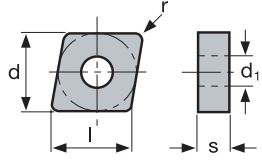
GEOMETRY	GRADE	DESIGNATION	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe				
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
					S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
M10 	CCMT	120404-M10															●	0,12 - 0,25	0,4 - 3,5
		120408-M10																●	0,12 - 0,32
MF17 	CCGT	120404-MF17	●															0,08 - 0,25	0,6 - 5,0

Exotic alloy Groupe
S1 - High temperature resistant alloys
S2 - Pure titanium (Vc +100%)
S3 - Titanium alloys

CARBIDE **CN 1204** 80°
DIAMOND
0° NEGATIVE

EXOTIC ALLOY

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P																		
	STAINLESS STEEL	M																		
	CAST IRON	K																		
	NON-FERROUS METAL	N																		
	EXOTIC ALLOY	S																		
	HARDENED STEEL	H																		

Machining Types

	SECONDARY USE		PRIMARY USE
	CONTINUOUS CUTTING		GENERAL CUTTING
	INTERRUPTED CUTTING		

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Exotic alloy Groupe			
			B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35		
R7 	CNMG 120408-R7														0,20 - 0,40	0,8 - 6,0
	CNMG 120412-R7														0,25 - 0,60	1,0 - 6,0
MR 	CNGG 120408-MR							●					●		0,20 - 0,50	1,2 - 6,0
	CNGG 120412-MR							●					●		0,20 - 0,50	1,2 - 6,0
MR2 	CNGG 120408-MR2							●							0,20 - 0,45	1,0 - 3,2
M 	CNGG 120404-M							●							0,20 - 0,40	1,0 - 3,5
	CNGG 120408-M							●							0,20 - 0,40	1,0 - 3,5
	CNGG 120412-M							●							0,20 - 0,40	1,0 - 3,5
	CNMG 120404-M							●							0,20 - 0,40	1,0 - 3,5
	CNMG 120408-M							●							0,20 - 0,40	1,0 - 3,5
	CNMG 120412-M							●							0,20 - 0,40	1,0 - 3,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE

CN 1204

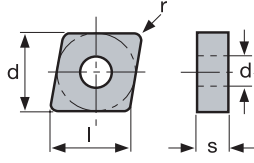
80°

DIAMOND

0° NEGATIVE

EXOTIC ALLOY

12,70	d	INSCRIBED CIRCLE
12,90	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

MACHINING MATERIAL		
STEEL	P	
STAINLESS STEEL	M	
CAST IRON	K	
NON-FERROUS METAL	N	
EXOTIC ALLOY	S	
HARDENED STEEL	H	

Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

Machining Types

○	●	CONTINUOUS CUTTING
⊖	⊕	GENERAL CUTTING
⊗	⊙	INTERRUPTED CUTTING

SECONDARY USE

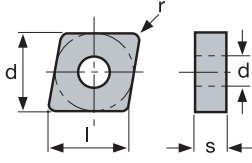
PRIMARY USE

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Exotic alloy Groupe			
			B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		Vc (M/MIN) CUTTING SPEED →														
M1 	CNGG 120404-M1		S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	0,10 - 0,30	0,5 - 4,0
	CNGG 120408-M1						●						●		0,10 - 0,30	0,5 - 4,0
	CNGG 120412-M1							●						●	0,10 - 0,30	0,5 - 4,0
M2 	CNMG 120408-M2			●									●		0,20 - 0,45	1,0 - 5,0
M8 	CNMG 120404-M8												●		0,08 - 0,20	0,5 - 4,0
	CNMG 120408-M8												●		0,12 - 0,30	0,8 - 4,0
	CNMG 120412-M8												●		0,15 - 0,32	1,0 - 4,0
F4 	CNMG 120404-F4	●		●					●	●					0,08 - 0,17	0,4 - 1,5
	CNMG 120408-F4	●		●					●	●					0,10 - 0,20	0,5 - 2,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	CN	80°	EXOTIC ALLOY
	1906	DIAMOND	
		0° NEGATIVE	

19,05	d	INSCRIBED CIRCLE
19,30	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,15	± 0,10	± 0,13	± 0,13
U	± 0,27	± 0,18	± 0,13	± 0,13

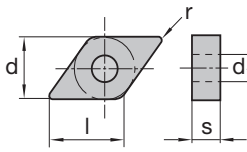
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
	○	●	CONTINUOUS CUTTING
	⊖	⊖	GENERAL CUTTING
	⊕	⊕	INTERRUPTED CUTTING

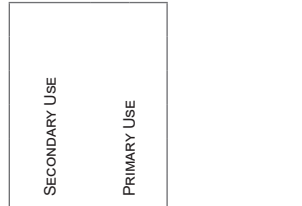
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe		
		15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
GRADE →		B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2		
R7	CNMG 190612-R7								●					0,25 - 0,65	1,2 - 10,0
	CNMG 190616-R7											●		0,35 - 0,80	1,6 - 10,0

CARBIDE DC 0702 55° DIAMOND 7° POSITIVE EXOTIC ALLOY

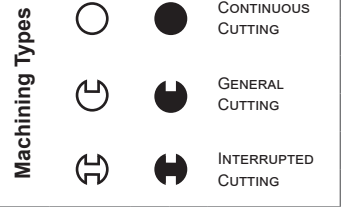
6,35	d	INSCRIBED CIRCLE
7,70	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13



MACHINING MATERIAL	STEEL	P													
	STAINLESS STEEL	M													
	CAST IRON	K													
	NON-FERROUS METAL	N													
	EXOTIC ALLOY	S													
	HARDENED STEEL	H													

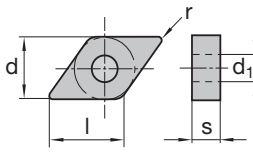


GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe		
			S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35		
	DCGT 0702008 FL-M1							●							0,10 - 0,30	0,5 - 4,0
	DCGT 0702008 FR-M1							●							0,10 - 0,30	0,5 - 4,0
	DCGT 0702015 FL-M1							●							0,10 - 0,30	0,5 - 4,0
	DCGT 0702015 FR-M1							●							0,10 - 0,30	0,5 - 4,0
	DCMT 070202-M11		●							●					0,08 - 0,15	0,4 - 1,5
	DCMT 070204-M11		●							●					0,08 - 0,22	0,4 - 2,5
	DCGT 0702008							●							0,05 - 0,20	0,1 - 1,0
	DCGT 0702015							●							0,05 - 0,20	0,1 - 1,0
	DCGT 070204-MF17			●											0,08 - 0,25	0,6 - 2,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DC	55°	EXOTIC ALLOY
	0702	DIAMOND	
		7° POSITIVE	

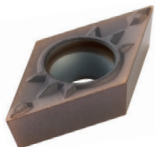
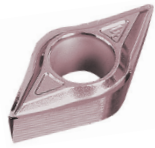
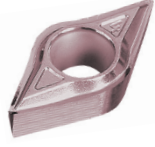
6,35	d	INSCRIBED CIRCLE
7,70	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

Machining Types	○	●	SECONDARY USE	PRIMARY USE
	○	●	CONTINUOUS CUTTING	
	⊖	⊖	GENERAL CUTTING	
	⊕	⊕	INTERRUPTED CUTTING	

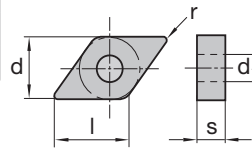
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

GEOMETRY ↓	DESIGNATION ↓	GRADE →	MACHINING MATERIAL GROUPE →										Exotic alloy Groupe					
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	F (MM/REV) FEED RATE ↓	AP (MM) DEPTH OF CUT ↓		
F10 	DCMT 070202-F10	B22-V2	●														0,04 - 0,12	0,1 - 1,0
	DCMT 070204-F10	A22-J2	●															0,05 - 0,16
F11 	DCGT 0702015-F11	E31-N1															0,05 - 0,12	0,2 - 2,0
	DCGT 070201-F11	E31-M1															0,02 - 0,06	0,1 - 1,5
	DCGT 070202-F11	B32-S2															0,05 - 0,12	0,2 - 2,0
	DCGT 070204-F11	B42-W2															0,08 - 0,25	0,2 - 2,5
F12 	DCGT 070202-F12	B22-V2	●														0,05 - 0,12	0,2 - 2,0
	DCGT 070204-F12	A22-J2	●														0,08 - 0,25	0,2 - 2,5

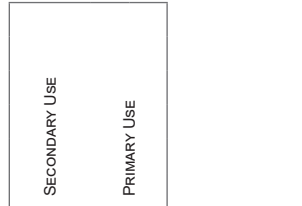
CARBIDE **DC 11T3** 55°
DIAMOND
7° POSITIVE

EXOTIC ALLOY

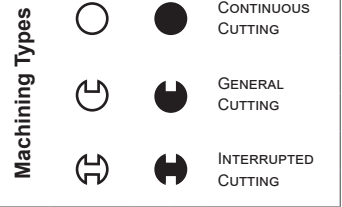
9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	



MACHINING MATERIAL	STEEL	P													
	STAINLESS STEEL	M													
	CAST IRON	K													
	NON-FERROUS METAL	N													
	EXOTIC ALLOY	S													
	HARDENED STEEL	H													

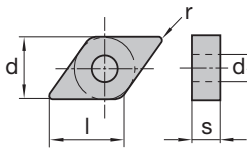


GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe		
		B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
MR1 	DCMT 11T304-MR1					●								0,20 - 0,50	0,5 - 9,1
E-M1 	DCGT 11T3015 FL-M1									●				0,10 - 0,30	0,5 - 4,0
	DCGT 11T3015 FR-M1									●				0,10 - 0,30	0,5 - 4,0
	DCGT 11T3035 FL-M1									●				0,10 - 0,30	0,5 - 4,0
	DCGT 11T3035 FR-M1									●				0,10 - 0,30	0,5 - 4,0
M2 	DCMT 11T304-M2			●							●		0,20 - 0,45	1,0 - 5,0	
	DCMT 11T308-M2			●							●		0,20 - 0,45	1,0 - 5,0	
M11 	DCMT 11T302-M11	●									●		0,08 - 0,15	0,4 - 1,5	
	DCMT 11T304-M11	●									●		0,08 - 0,22	0,4 - 2,5	

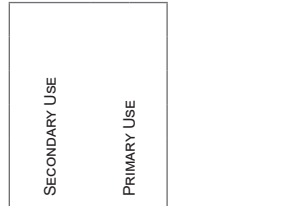
ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DC 11T3	55°	<h1>EXOTIC ALLOY</h1>
		DIAMOND	
		7° POSITIVE	

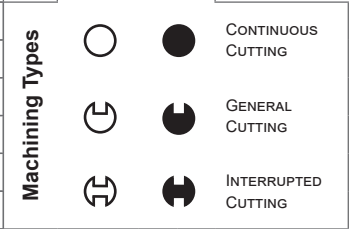
9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13



MACHINING MATERIAL	STEEL	P													
	STAINLESS STEEL	M													
	CAST IRON	K													
	NON-FERROUS METAL	N													
	EXOTIC ALLOY	S													
	HARDENED STEEL	H													

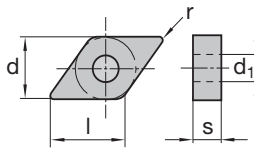


GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →										Exotic alloy Groupe			
		S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		GRADE →													
		B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2		
	DCGT 11T3015						●							0,05 - 0,20	0,1 - 1,0
	DCGT 11T3035						●							0,05 - 0,20	0,1 - 1,0
MF17	DCGT 11T304-MF17		●											0,08 - 0,25	0,6 - 3,0
F10	DCMT 11T302-F10	●							●					0,04 - 0,12	0,1 - 1,0
	DCMT 11T304-F10	●							●					0,05 - 0,16	0,1 - 1,5
F11	DCGT 11T3015-F11							●						0,05 - 0,12	0,2 - 2,0
	DCGT 11T301-F11							●						0,02 - 0,06	0,1 - 1,5
	DCGT 11T302-F11							●						0,05 - 0,12	0,2 - 2,0
	DCGT 11T3035-F11							●						0,08 - 0,25	0,2 - 2,5
	DCGT 11T304-F11							●						0,08 - 0,25	0,2 - 2,5
	DCGT 11T308-F11							●						0,10 - 0,30	0,3 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DC 11T3	55°	<h1>EXOTIC ALLOY</h1>
		DIAMOND	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
11,60	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

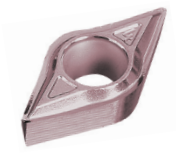
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Tolerance Classes	Secondary Use		Primary Use		
	Secondary Use	Primary Use	Secondary Use	Primary Use	
	E	○	●	○	●
	G	○	●	○	●
	H	○	●	○	●
	M	○	●	○	●
U	○	●	○	●	

Machining Types

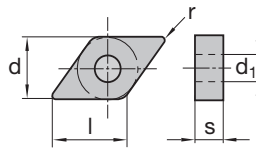
○	●	CONTINUOUS CUTTING
⊖	⊖	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe														
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT													
F12	DCGT 11T304-F12	B22-V2	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
	DCGT 11T308-F12	A22-J2	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
		A21-L1	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
		E22-AO2	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
		E31-N1	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
		E31-M1	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
		B32-S2	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
		B42-W2	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
		E42-AP2	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
		E41-O1	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
		B62-Y2	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			
		B72-M2	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3			



CARBIDE	DN	55°	EXOTIC ALLOY
	1504	DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																


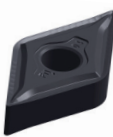

Machining Types	
○	●
⊖	⊕
⊗	⊙

SECONDARY USE PRIMARY USE

○ ● CONTINUOUS CUTTING

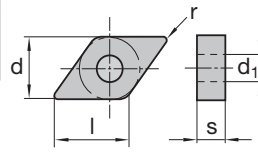
⊖ ⊕ GENERAL CUTTING

⊗ ⊙ INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe		
		Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
GRADE →		S1,2,3														
		15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35			
		B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2			
M 	DNMG 150404-M					●									0,20 - 0,40	1,0 - 3,5
	DNMG 150408-M					●									0,20 - 0,40	1,0 - 3,5
	DNMG 150412-M					●									0,20 - 0,40	1,0 - 3,5
M1 	DNGG 150404-M1					●					●				0,10 - 0,30	0,5 - 4,0
	DNGG 150408-M1					●					●				0,10 - 0,30	0,5 - 4,0
	DNGG 150412-M1					●					●				0,10 - 0,30	0,5 - 4,0
F4 	DNMG 150404-F4	●							●						0,06 - 0,16	0,4 - 1,5
	DNMG 150408-F4	●							●						0,08 - 0,19	0,5 - 2,0

CARBIDE	DN	55°	EXOTIC ALLOY
	1506	DIAMOND	
	0° NEGATIVE		

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS


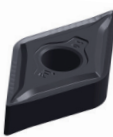


Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

Machining Types	○	●	○	●
	○	●	○	●
	○	●	○	●
	○	●	○	●
SECONDARY USE	PRIMARY USE	CONTINUOUS CUTTING	GENERAL CUTTING	INTERRUPTED CUTTING

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

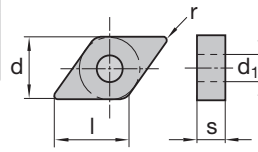
MACHINING MATERIAL	STEEL	P	M	K	N	S	H
	STAINLESS STEEL	○	○	○	○	○	○
	CAST IRON	○	○	○	○	○	○
	NON-FERROUS METAL	○	○	○	○	○	○
	EXOTIC ALLOY	●	●	●	●	●	●
	HARDENED STEEL	○	○	○	○	○	○

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe			
		Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
		GRADE →															
M	DNMG 150604-M															0,20 - 0,40	1,0 - 3,5
	DNMG 150608-M															0,20 - 0,40	1,0 - 3,5
	DNMG 150612-M															0,20 - 0,40	1,0 - 3,5
	M1	DNGG 150604-M1															0,10 - 0,30
	DNGG 150608-M1															0,10 - 0,30	0,5 - 4,0
	DNGG 150612-M1															0,10 - 0,30	0,5 - 4,0
	M2	DNMG 150608-M2															0,20 - 0,45
	M8	DNMG 150604-M8														0,08 - 0,22	0,4 - 2,5
	DNMG 150608-M8															0,12 - 0,28	0,6 - 4,0
																	

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	DN 1506	55°	EXOTIC ALLOY
		DIAMOND	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
15,50	l	CUTTING EDGE LENGTH
6,35	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	

MACHINING MATERIAL	STEEL	P	○	●																		
	STAINLESS STEEL	M	●	○		○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	●																		
	NON-FERROUS METAL	N	○																			
	EXOTIC ALLOY	S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HARDENED STEEL	H	○			●																

Machining Types	
○	●
○	●
○	●
○	●

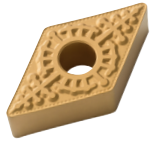
SECONDARY USE PRIMARY USE

○ ● CONTINUOUS CUTTING

○ ● GENERAL CUTTING

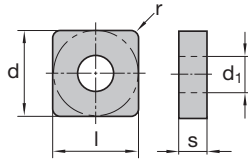
○ ● INTERRUPTED CUTTING

GEOMETRY ↓	DESIGNATION ↓	MACHINING MATERIAL GROUPE →														Exotic alloy Groupe	
		Vc (M/MIN) CUTTING SPEED →														S1 - High temperature resistant alloys S2 - Pure titanium (Vc +100%) S3 - Titanium alloys	
		GRADE →															
F4		B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2			F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
																0,06 - 0,16	0,4 - 1,5
																0,08 - 0,19	0,5 - 2,0



CARBIDE	SC 09T3	90°	<h1>EXOTIC ALLOY</h1>
		SQUARE	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
9,70	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

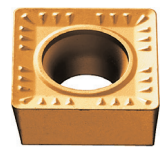
○	●				●	●	⊕			⊕	⊕		
●	○		○	●	●	●	⊕		⊕	⊕	⊕		
○	●					○	⊕			⊕			
○				●	○	⊕				⊕			
●	●	●	●	●	●	●	⊕	⊕	⊕	⊕	⊕		
○			●		○	⊕				⊕			

Machining Types

○	●	CONTINUOUS CUTTING
⊕	⊕	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING

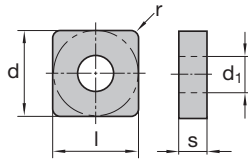
SECONDARY USE (○) PRIMARY USE (●)

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe																								
		15-90			15-70			30-70			30-80			20-100			30-70			15-80			15-80			30-70			20-100			15-70			5-35			F (MM/REV) FEED RATE
GRADE →	VC (M/MIN) CUTTING SPEED →	B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	S1,2,3	S1,2,3	S1,2,3	S1,2,3	S1,2,3	S1,2,3	S1,2,3	S1,2,3	S1,2,3	S1,2,3	S1,2,3		
M10	SCMT 09T304-M10								●																												0,08 - 0,25	0,4 - 3,0



CARBIDE	SC	90°	EXOTIC ALLOY
	1204	SQUARE	
	7° POSITIVE		

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,13	± 0,08	± 0,13
	U	± 0,20	± 0,13	± 0,13

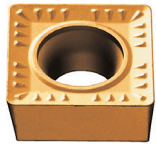
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

○	●				●	●	○			○		○		○			
●	○		○	●	●	●	○	○	○	○	○	○	○	○	○	○	○
○	●						○	○	○	○		○		○			
○					●	○	○	○		○		○		○			
●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○
○			●			○	○			○		○		○			

Machining Types	
○	●
○	●
○	●
○	●

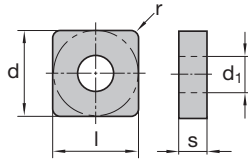
SECONDARY USE PRIMARY USE
 CONTINUOUS CUTTING
 GENERAL CUTTING
 INTERRUPTED CUTTING

GEOMETRY ↓ M10	DESIGNATION ↓ SCMT 120404-M10 SCMT 120408-M10	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe																
		Vc (M/MIN) CUTTING SPEED →											S1 - High temperature resistant alloys S2 - Pure titanium (Vc +100%) S3 - Titanium alloys																
		GRADE →																											
		15-90			15-70			30-70			30-80			20-100		30-70		15-80		15-80		30-70		20-100		15-70		5-35	
		B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2	F (MM/REV) FEED RATE ↓		AP (MM) DEPTH OF CUT ↓													
													●	0,08 - 0,25		0,4 - 3,0													
									●					0,12 - 0,32		0,5 - 3,5													



CARBIDE	SN 1204	90°	<h1>EXOTIC ALLOY</h1>
		SQUARE	
		0° NEGATIVE	

12,70	d	INSCRIBED CIRCLE
12,70	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,025	± 0,13
H	± 0,013	± 0,013	± 0,013	± 0,025
M	± 0,13	± 0,08	± 0,13	± 0,13
U	± 0,20	± 0,13	± 0,13	± 0,13

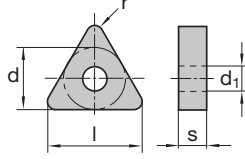
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types		SECONDARY USE
		PRIMARY USE
		CONTINUOUS CUTTING
		GENERAL CUTTING
	INTERRUPTED CUTTING	

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe		
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
MR	SNMG 120408-MR		S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	0,20 - 0,50	1,2 - 6,0
M1	SNMG 120412-MR														0,20 - 0,50	1,2 - 6,0
	SNMG 120408-M1														0,10 - 0,30	0,5 - 4,0
	SNMG 120412-M1														0,10 - 0,30	0,5 - 4,0

CARBIDE	TC 1102	60°	<h1>EXOTIC ALLOY</h1>
		TRIANGLE	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
11,00	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
		E	± 0,025	± 0,025
	G	± 0,025	± 0,025	± 0,13
	H	± 0,013	± 0,013	± 0,025
	M	± 0,08	± 0,05	± 0,13
	U	± 0,13	± 0,08	± 0,13

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

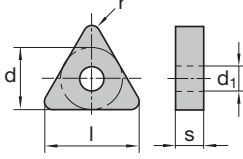
GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe						
		Vc (M/MIN) CUTTING SPEED →			GRADE →								F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT					
M10	TCMT 110204-M10	15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	S1,2,3	S1	S1,2,3	S1,2,3	S1,2,3	
	TCMT 110208-M10																		

Exotic alloy Groupe
S1 - High temperature resistant alloys
S2 - Pure titanium (Vc +100%)
S3 - Titanium alloys

CARBIDE **TC 16T3** **60°**
TRIANGLE
7° POSITIVE

EXOTIC ALLOY

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

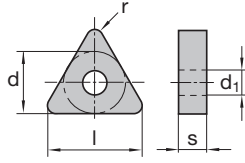
MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe		
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
M10	TCMT 16T304-M10		S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	0,08 - 0,25	0,4 - 3,0
	TCMT 16T308-M10														0,12 - 0,32	0,5 - 3,0

CARBIDE	TN 1604	60°	<h1>EXOTIC ALLOY</h1>
		TRIANGLE	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
16,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

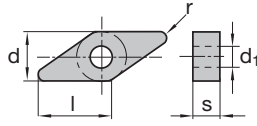
MACHINING MATERIAL	STEEL	P															
	STAINLESS STEEL	M															
	CAST IRON	K															
	NON-FERROUS METAL	N															
	EXOTIC ALLOY	S															
	HARDENED STEEL	H															

Machining Types		SECONDARY USE	PRIMARY USE	
				CONTINUOUS CUTTING
				GENERAL CUTTING
				INTERRUPTED CUTTING

GEOMETRY	MACHINING MATERIAL GROUPE →	GRADE →	DESIGNATION	Exotic alloy Groupe												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
				Vc (M/MIN) CUTTING SPEED →														
				15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35			
				B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2			
M8 			TNMG 160404-M8								●						0,08 - 0,20	0,6 - 3,0
			TNMG 160408-M8								●						0,12 - 0,30	1,0 - 4,0
F4 			TNMG 160404-F4	●			●				●	●					0,08 - 0,17	0,4 - 1,5
			TNMG 160408-F4	●			●				●	●					0,10 - 0,20	0,5 - 2,0

CARBIDE	VC 0501	35°	<h1>EXOTIC ALLOY</h1>
		DIAMOND	
		7° POSITIVE	

3,10	d	INSCRIBED CIRCLE
5,40	l	CUTTING EDGE LENGTH
1,59	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P													
	STAINLESS STEEL	M	●	○		○	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	●					○	○	○	○	○	○	○
	NON-FERROUS METAL	N	○					●	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	●	●	●	●	●	●	●	●	●	●	●	●	●
	HARDENED STEEL	H	○			●			○	○			○		

Machining Types

○	●	CONTINUOUS CUTTING
○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING

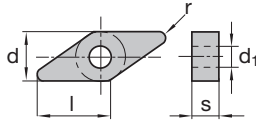
SECONDARY USE (○) PRIMARY USE (●)

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →										Exotic alloy Groupe				
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
F10	VCGT 050101-F10		S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	●	0,04 - 0,15	0,05 - 1,0
	VCGT 050102-F10														●	0,04 - 0,20	0,1 - 2,5
	VCGT 050104-F10														●	0,05 - 0,16	0,1 - 1,5

Exotic alloy Groupe
S1 - High temperature resistant alloys
S2 - Pure titanium (Vc +100%)
S3 - Titanium alloys

CARBIDE	VC 0702	35°	<h1>EXOTIC ALLOY</h1>
		DIAMOND	
		7° POSITIVE	

3,97	d	INSCRIBED CIRCLE
6,85	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



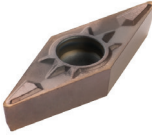
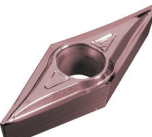
Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P	○	●															
	STAINLESS STEEL	M	●	○		○	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	●															
	NON-FERROUS METAL	N	○																
	EXOTIC ALLOY	S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HARDENED STEEL	H	○			●													

Machining Types

○	●	CONTINUOUS CUTTING
⊖	⊖	GENERAL CUTTING
⊕	⊕	INTERRUPTED CUTTING

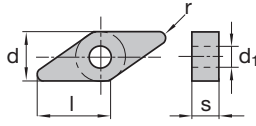
SECONDARY USE (○) PRIMARY USE (●)

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe					
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT			
F10 	VCMT 070202-F10																●	0,04 - 0,20	0,1 - 2,5
	VCMT 070204-F10																	●	0,05 - 0,16
F11 	VCGT 0702015-F11																●	0,02 - 0,06	0,1 - 1,0

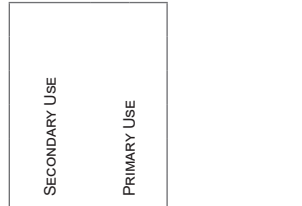
CARBIDE **VC 1103** 35°
DIAMOND
7° POSITIVE

EXOTIC ALLOY

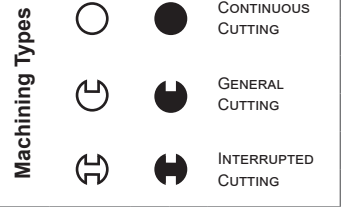
6,35	d	INSCRIBED CIRCLE
11,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	



MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

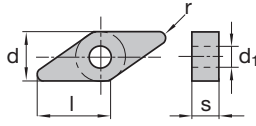


GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe	
			VC (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
			B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2		
M11 	VCMT 110302-M11		●							●					0,08 - 0,20	0,4 - 2,0
	VCMT 110304-M11		●							●						
-	VCGT 1103008							●							0,05 - 0,20	0,1 - 1,0
	VCGT 1103015							●							0,05 - 0,20	0,1 - 1,0
MF17 	VCGT 110301-MF17			●											0,02 - 0,06	0,5 - 1,5
	VCGT 110302-MF17			●											0,05 - 0,12	0,5 - 2,0
	VCGT 110304-MF17			●											0,08 - 0,25	0,6 - 2,5
F10 	VCMT 110302-F10		●							●					0,04 - 0,12	0,1 - 1,0
	VCMT 110304-F10		●							●					0,05 - 0,16	0,1 - 1,5

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	VC	35°	EXOTIC ALLOY
	1103	DIAMOND	
		7° POSITIVE	

6,35	d	INSCRIBED CIRCLE
11,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

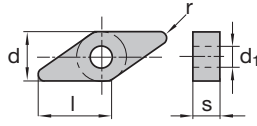
Machining Types	SECONDARY USE	PRIMARY USE	
			CONTINUOUS CUTTING
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe		
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35			
			B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2			
F11 	VC GT 1103015-F11								●							0,05 - 0,12	0,2 - 2,0
	VC GT 110301-F11								●							0,02 - 0,06	0,1 - 1,5
	VC GT 110302-F11								●							0,05 - 0,12	0,2 - 2,0
	VC GT 1103035-F11								●							0,08 - 0,25	0,2 - 2,5
	VC GT 110304-F11								●							0,08 - 0,25	0,2 - 2,5
F12 	VC GT 1103005-F12									●						0,02 - 0,06	0,1 - 1,5
	VC GT 110301-F12									●						0,02 - 0,06	0,1 - 1,5
	VC GT 110302-F12	●								●						0,05 - 0,12	0,2 - 2,0
	VC GT 110304-F12	●								●						0,08 - 0,25	0,2 - 2,5

CARBIDE **VC 1303** 35°
DIAMOND
7° POSITIVE

EXOTIC ALLOY

7,94	d	INSCRIBED CIRCLE
13,10	l	CUTTING EDGE LENGTH
3,18	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P																	
	STAINLESS STEEL	M																	
	CAST IRON	K																	
	NON-FERROUS METAL	N																	
	EXOTIC ALLOY	S																	
	HARDENED STEEL	H																	

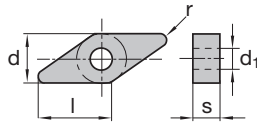
Machining Types

	SECONDARY USE		PRIMARY USE
	CONTINUOUS CUTTING		GENERAL CUTTING
	INTERRUPTED CUTTING		

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe				
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
MF17 	VC GT 130302-MF17		●														0,05 - 0,12	0,5 - 2,0
	VC GT 130304-MF17		●														0,08 - 0,25	0,6 - 3,0
F11 	VC GT 130302-F11																0,05 - 0,12	0,2 - 2,0
	VC GT 130304-F11																0,08 - 0,25	0,2 - 2,5

CARBIDE
VC 1604
35°
DIAMOND
7° POSITIVE
EXOTIC ALLOY

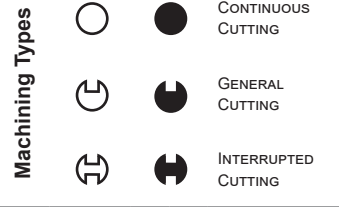
9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13



MACHINING MATERIAL	STEEL	P															
	STAINLESS STEEL	M															
	CAST IRON	K															
	NON-FERROUS METAL	N															
	EXOTIC ALLOY	S															
	HARDENED STEEL	H															

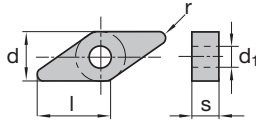


GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe	
			Vc (m/min) CUTTING SPEED →												F (mm/rev) FEED RATE	AP (mm) DEPTH OF CUT
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35		
			B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2		
M11 	VCMT 160404-M11		●							●					0,12 - 0,25	0,8 - 3,0
	VCMT 160408-M11		●							●					0,15 - 0,25	0,8 - 3,0
MF17 	VCGT 160402-MF17			●											0,05 - 0,12	0,5 - 2,0
	VCGT 160404-MF17			●											0,08 - 0,25	0,6 - 3,5
	VCGT 160408-MF17			●											0,10 - 0,35	0,8 - 3,5
F10 	VCMT 160404-F10		●							●					0,05 - 0,16	0,1 - 1,5
F11 	VCGT 160402-F11									●					0,05 - 0,12	0,2 - 2,0
	VCGT 160404-F11									●					0,08 - 0,25	0,2 - 2,5
	VCGT 160408-F11									●					0,10 - 0,30	0,3 - 3,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1

CARBIDE	VN 1604	35°	EXOTIC ALLOY
		DIAMOND	
		0° NEGATIVE	

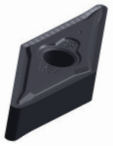
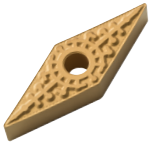
9,52	d	INSCRIBED CIRCLE
16,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

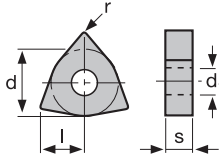
MACHINING MATERIAL	STEEL	P	○	●																	
	STAINLESS STEEL	M	●	○		○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	CAST IRON	K	○	●							○	○	○	○	○	○	○	○	○	○	
	NON-FERROUS METAL	N	○								●	○	○	○	○	○	○	○	○	○	
	EXOTIC ALLOY	S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HARDENED STEEL	H	○			●					○	○	○	○	○	○	○	○	○	○	○

Machining Types	○	●	CONTINUOUS CUTTING
	○	●	GENERAL CUTTING
	○	●	INTERRUPTED CUTTING
	○	●	

GEOMETRY	DESIGNATION	GRADE →	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe				
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT		
M1 	VNMG 160404-M1						●										0,10 - 0,30	0,5 - 4,0
	VNMG 160408-M1					●											0,10 - 0,30	0,5 - 4,0
F4 	VNMG 160404-F4	●			●					●	●						0,05 - 0,15	0,2 - 1,5
	VNMG 160408-F4	●			●					●	●						0,07 - 0,18	0,3 - 2,0

CARBIDE **WC 0201** 80° TRIGON 7° POSITIVE **EXOTIC ALLOY**

3,97	d	INSCRIBED CIRCLE
2,70	l	CUTTING EDGE LENGTH
1,59	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	± 0,13
H	± 0,013	± 0,013	± 0,025	± 0,025
M	± 0,08	± 0,05	± 0,13	± 0,13
U	± 0,13	± 0,08	± 0,13	± 0,13

MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																

Machining Types

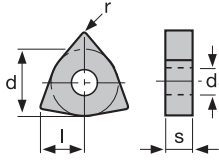
	SECONDARY USE		PRIMARY USE
	CONTINUOUS CUTTING		GENERAL CUTTING
	INTERRUPTED CUTTING		

GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe		
			Vc (M/MIN) CUTTING SPEED →											F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT	
F10	WCMT 020102-F10		S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	0,04 - 0,12	0,1 - 1,0
	WCMT 020104-F10		15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35	0,05 - 0,16	0,1 - 1,5

Exotic alloy Groupe
S1 - High temperature resistant alloys
S2 - Pure titanium (Vc +100%)
S3 - Titanium alloys

CARBIDE **WC 0402** 80° TRIGON 7° POSITIVE **EXOTIC ALLOY**

6,35	d	INSCRIBED CIRCLE
4,30	l	CUTTING EDGE LENGTH
2,38	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL		
STEEL	P	
STAINLESS STEEL	M	
CAST IRON	K	
NON-FERROUS METAL	N	
EXOTIC ALLOY	S	
HARDENED STEEL	H	

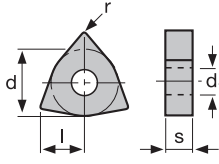
Machining Types	SECONDARY USE	PRIMARY USE	
			GENERAL CUTTING
			INTERRUPTED CUTTING

GEOMETRY	DESIGNATION	MACHINING MATERIAL GROUPE →											Exotic alloy Groupe												
		15-90		15-70		30-70		30-80		20-100		30-70		15-80		30-70		20-100		15-70		5-35		F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT
		B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2												
M10	WCMT 040204-M10								●															0,08 - 0,25	0,4 - 2,0



CARBIDE	WC 06T3	80°	EXOTIC ALLOY
		TRIGON	
		7° POSITIVE	

9,52	d	INSCRIBED CIRCLE
6,50	l	CUTTING EDGE LENGTH
3,97	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P
	STAINLESS STEEL	M
	CAST IRON	K
	NON-FERROUS METAL	N
	EXOTIC ALLOY	S
	HARDENED STEEL	H

Machining Types	
○	●
○	●
○	●
○	●

SECONDARY USE PRIMARY USE

○ ● CONTINUOUS CUTTING

○ ● GENERAL CUTTING

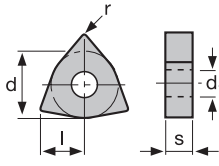
○ ● INTERRUPTED CUTTING

MACHINING MATERIAL GROUPE →	Vc (M/MIN) CUTTING SPEED →											Exotic alloy Groupe			
	S1,2,3	S1	S2,3	S3	S1	S2,3	S1,2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	F (MM/REV) FEED RATE ↓	AP (MM) DEPTH OF CUT ↓	
GRADE →	DESIGNATION											F (MM/REV) FEED RATE ↓		AP (MM) DEPTH OF CUT ↓	
GEOMETRY ↓	B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2			
M10								●					0,08 - 0,25	0,4 - 2,5	
								●					0,12 - 0,32	0,5 - 2,5	



CARBIDE	WN 0604	80°	EXOTIC ALLOY
		TRIGON	
		0° NEGATIVE	

9,52	d	INSCRIBED CIRCLE
6,50	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,08	± 0,05	± 0,13	
U	± 0,13	± 0,08	± 0,13	

MACHINING MATERIAL	STEEL	P													
	STAINLESS STEEL	M	●	○		○	●	●	●	●	●	○	○	○	○
	CAST IRON	K	○	●						○	○	○	○	○	○
	NON-FERROUS METAL	N	○				●	○	○	○	○	○	○	○	○
	EXOTIC ALLOY	S	●	●	●	●	●	●	●	●	●	●	●	●	●
	HARDENED STEEL	H	○			●			○	○	○	○	○	○	○

Machining Types

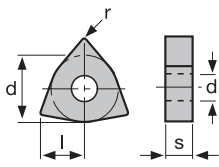
○	●	CONTINUOUS CUTTING
○	●	GENERAL CUTTING
○	●	INTERRUPTED CUTTING

SECONDARY USE (○) PRIMARY USE (●)

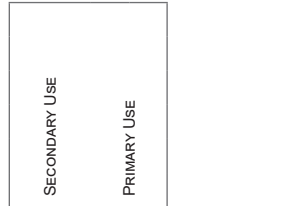
GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe												
			Vc (M/MIN) CUTTING SPEED →												F (MM/REV) FEED RATE	AP (MM) DEPTH OF CUT											
M1	WNGG 060408-M1		B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2	S1,2,3	S1	S2,3	S1	S2,3	S1,2,3	S3	S1	S1,2,3	S1,2,3	S1,2,3		

CARBIDE **WN 0804** 80° TRIGON 0° NEGATIVE **EXOTIC ALLOY**

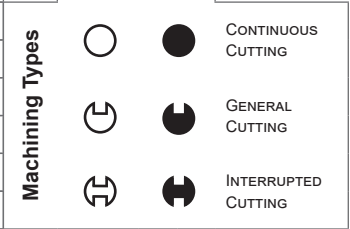
12,70	d	INSCRIBED CIRCLE
8,60	l	CUTTING EDGE LENGTH
4,76	s	THICKNESS



Tolerance Classes	CLASS	m	d	s
	E	± 0,025	± 0,025	± 0,025
G	± 0,025	± 0,025	± 0,13	
H	± 0,013	± 0,013	± 0,025	
M	± 0,13	± 0,08	± 0,13	
U	± 0,20	± 0,13	± 0,13	



MACHINING MATERIAL	STEEL	P																
	STAINLESS STEEL	M																
	CAST IRON	K																
	NON-FERROUS METAL	N																
	EXOTIC ALLOY	S																
	HARDENED STEEL	H																



GEOMETRY	DESIGNATION	GRADE	MACHINING MATERIAL GROUPE →												Exotic alloy Groupe	
			Vc (m/min) CUTTING SPEED →												F (mm/rev) FEED RATE	AP (mm) DEPTH OF CUT
			15-90	15-70	30-70	30-80	20-100	30-70	15-80	15-80	30-70	20-100	15-70	5-35		
			B22-V2	A22-J2	A21-L1	E22-AO2	E31-N1	E31-M1	B32-S2	B42-W2	E42-AP2	E41-O1	B62-Y2	B72-M2		
M 	WNGG 080404-M						●								0,20 - 0,40	1,0 - 3,5
	WNGG 080408-M						●								0,20 - 0,40	1,0 - 3,5
	WNGG 080412-M						●								0,20 - 0,40	1,0 - 3,5
	WNMG 080404-M						●								0,20 - 0,40	1,0 - 3,5
	WNMG 080408-M						●								0,20 - 0,40	1,0 - 3,5
	WNMG 080412-M						●								0,20 - 0,40	1,0 - 3,5
M1 	WNGG 080404-M1						●								0,10 - 0,30	0,5 - 4,0
	WNGG 080408-M1						●								0,10 - 0,30	0,5 - 4,0
	WNGG 080412-M1						●								0,10 - 0,30	0,5 - 4,0
M2 	WNMG 080408-M2				●							●			0,20 - 0,45	1,0 - 5,0
F4 	WNMG 080404-F4	●			●				●	●					0,08 - 0,17	0,4 - 1,5
	WNMG 080408-F4	●			●				●	●					0,10 - 0,20	0,5 - 2,0

ORDER EXAMPLE: CCMT 09T304-M A31-A1