



GENERAL CATALOG
TURNING, DRILLING AND MILLING SOLUTIONS



Just make your choice

ISO TURNING INSERTS CODE KEY

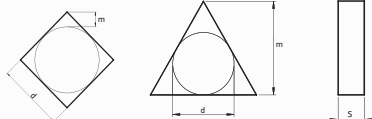


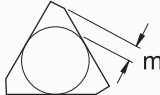
ISO	1	2	3	4	ANSI	1	2	3	4
	T	N	M	G		T	N	M	G

1 - Insert shape symbol													
A		B		C		D		E		F		H	
M		O		P		R		S		T		V	

2 - Normal clearance symbol									
A	B	C	D	E	F	G	N	P	O
									Other clearance angle

3 - Tolerances symbol





Triangular inserts with a facet
(secondary cutting edge)

Sym-bol	m (mm)	d (mm)	s (mm)
A	±0.005	±0.025	±0.025
F	±0.005	±0.013	±0.025
C	±0.013	±0.025	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
J	±0.005	±0.05~±0.13	±0.025
K*	±0.013	±0.05~±0.13	±0.025
L*	±0.025	±0.05~±0.13	±0.025
M*	±0.08~±0.20	±0.05~±0.13	±0.13
N*	±0.08~±0.20	±0.05~±0.13	±0.025
U*	±0.13~±0.38	±0.08~±0.25	±0.13

*As a rule, the sides of these inserts are as sintered.
Tolerance differs with insert size, for the accuracy of class M, refer to the table on the right.

Detailed dimension of M class insert Insert height Tolerances (mm)					
Inscribed circle					
6.35	±0.08	-	-	-	-
9.525	±0.08	±0.08	±0.11	±0.10	±0.13
12.70	±0.13	±0.13	±0.13	±0.15	-
15.875	±0.15	±0.15	±0.15	±0.18	-
19.05	±0.15	±0.15	±0.15	±0.18	-
25.40	-	±0.18	-	-	-
31.75	-	±0.25	-	-	-
Inscribed circle Tolerances (mm)					
Inscribed circle					
6.35	±0.05	-	-	-	-
9.525	±0.05	±0.05	±0.05	±0.05	±0.05
12.70	±0.08	±0.08	±0.08	±0.08	±0.08
15.875	±0.10	±0.10	±0.10	±0.10	±0.10
19.05	-	-	-	-	±0.10
25.40	-	±0.13	-	-	±0.10
31.75	-	±0.20	-	-	±0.12

4 - Insert symbol													
symbol	Type	Hole type	Chipbreaker	Shape	symbol	Type	Hole type	Chipbreaker	Shape	symbol	Type	Hole type	Chipbreaker
W	with hole	Round hole / one countersink (40°~60°)	Without chipbreaker		H	with hole	Round hole / one countersink (70°~90°)	Chipbreaker on one side		G	without hole	Round hole	Chipbreaker on both sides
T			Chipbreaker on one side		C		Round hole / double countersink (70°~90°)	Without chipbreaker		N		-	Without chipbreaker
Q		Round hole / double countersink (40°~60°)	Without chipbreaker		J		Round hole	Chipbreaker on both sides		R		-	Chipbreaker on one side
U			Chipbreaker on both sides		A			Without chipbreaker		F		-	Chipbreaker on both sides
B		Round hole / one countersink (70°~90°)	Without chipbreaker		M		Round hole	Chipbreaker on one side		X		-	On request

ISO TURNING INSERTS CODE KEY



ISO	5	6	7	7.1*	8	9	10	ANSI	5	6	7	8	9	10
	16	03	08	AN	E	N	-NST		3	2	2	E	N	-NST

5 - Insert size symbol									
R's	V's	D's	C's	S's	T's	W's	Ø CI		ANSI
							mm	inch	Symbol
-	06	04	-	03	06	02	3,97	5/32	1,20
-	08	05	04	04	08	L3	4,76	3/16	1,50
-	09	06	05	05	09	03	5,56	7/32	1,80
06**	-	-	-	-	-	-	6,00	0,236	
06*	11	07	06	06	11	04	6,35	1/4	2,00
07*	13	09	08	07	13	05	7,94	5/16	2,50
08*	-	-	-	-	-	-	8,00	0,315	
09*	16	11	09	09	16	06	9,525	3/8	3,00
10**	-	-	-	-	-	-	10,00	0,394	
12**	-	-	-	-	-	-	12,00	0,472	
12*	22	15	12	12	22	08	12,70	1/2	4,00
15*	27	19	16	15	27	10	15,875	5/8	5,00
16**	-	-	-	-	-	-	16,00	0,63	
19*	33	23	19	19	33	13	19,05	3/4	6,00
20**	-	-	-	-	-	-	20,00	0,787	
25**	-	-	-	-	-	-	25,00	0,984	
25*	44	31	25	25	44	17	25,40	1,00	8,00
31*	54	38	32	31	54	21	31,75	1 1/4	10,00
32**	-	-	-	-	-	-	32,00	1,26	

* ANSI designation only
(Radius Designation is R0)

** Metric designation only
(Radius Designation is M0)

According to International Standard ISO 1832 - 2012(E)

Indexable inserts for cutting tools - Designation

6 - Insert thickness symbol			
ISO	mm	ANSI	inch
01	1.59	1	0.062
T1	1.98	1.2	0.078
02	2.38	1.5	0.094
03	3.18	2	0.125
T3	3.97	2.5	0.156
04	4.76	3	0.188
05	5.56	3.5	0.219
06	6.35	4	0.250
07	7.94	5	0.312
09	9.52	6	0.375
12	12.70	8	0.500

7 - Insert corner symbol				7.1* - Insert edges symbol				8* - Cutting edge information			9* - Cutting direction					
ISO	mm	inch	ANSI	For inserts having secondary edges two digits are used:				Shape	Honing	Symbol	Shape	Hand	Symbol			
00	Sharp nose		0	1 st digit is secondary edge 2 nd digit is secondary edges relief angle					No honing	F		Right	R			
01	0.10	.004	0.2						With honing	E		Left	L			
02	0.20	.008	0.5	A	45°	A	3°		Chamfered No honing	T		None	N			
04	0.40	.015	1	D	60°	B	5°		Chamfered with honing	S	*only when required.					
08	0.80	.032	2	E	75°	C	7°									
12	1.2	.047	3	F	85°	D	15°									
16	1.6	.062	4	P	90°	E	20°									
20	2.0	.078	5	Z	special	F	25°									
24	2.4	.094	6	*only when required.				G	30°							
28	2.8	.109	7					N	0°							
32	3.2	.125	8					P	11°							
00 (inch or M0/metric)	Round insert		0					Z	special							

10 - Chipbreaker geometries																	
NEGATIVE Chipbreakers	FLAT	NMF	NSF	NLC	NMS	NMR	NPM	NFLAT	NFP	NBO	NFM	NFK	NFW	NLM	NMP	NMM	
	NST	NMW	NSS	NHR	NRP	NHY	NHZ	NMK	NMW	NFS	NLN	NCP	NST	NRF	NRM	NRR	
POSITIVE Chipbreakers																	

NEGATIVE TURNING application range overview



P	Fine finishing	Finishing		Medium	Roughing	Heavy roughing	
		NMF	NLC	NMR	NHR		
				NPM	NRP	NHY	
				NMW		NHZ	
CVD Grades							
	NXG105 (P05-P10)	NX1515 (P10-P25)	NXG115 (P10-P25)	NX1525 (P20-P35)	NXG125 (P20-P35)	NX7540 (P25-P45)	NXG140 (P25-P45)
PVD Grades							
	NX9710 (P05-P10)						
Continuous cut ← → Interrupted cut							

M	Fine finishing	Finishing	Medium	Roughing	Heavy roughing
	NMF	NSF	NSS		
		NMS		NRP	NHY
CVD Grades					
	NXS215 (M10-M25)	NX1525 (M15-M30)	NXS225 (M15-M30)	NX7540 (M25-M45)	NXS240 (M25-M45)
PVD Grades					
	NX9710 (M05-M10)	NX9720 (M10-M25)			
Continuous cut ← → Interrupted cut					

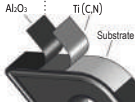
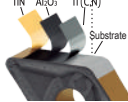
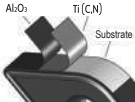
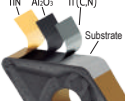
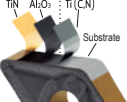
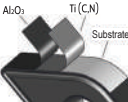
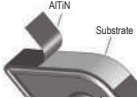
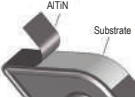
NEGATIVE TURNING application range overview

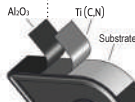
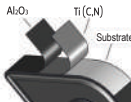
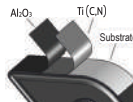
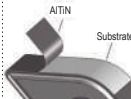


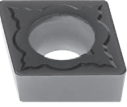
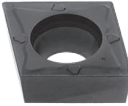
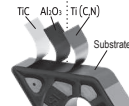
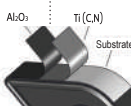
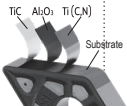
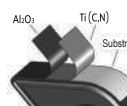
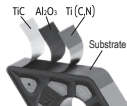
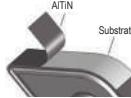
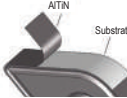
K	Fine finishing	Finishing	Medium	Roughing	Heavy roughing
			NST	FLAT	NHR
			NMW		NHZ
				wiper	
CVD Grades					
	NX7505 (K05-K15)	NX3520 (K10-K25)	NX7540 (K20-K40)		
Continuous cut ← → Interrupted cut					

N	Fine finishing	Finishing	Medium	Roughing	Heavy roughing
			NMS		
Uncoated Grades					
		NX0910 (N01-N20)			
Continuous cut ← → Interrupted cut					

S	Fine finishing	Finishing	Medium	Roughing	Heavy roughing
		NSF	NSS		
		NMS			
PVD Grades					
	NX9710 (S05-S10)	NX9720 (S10-S25)			
Continuous cut ← → Interrupted cut					

P 5° & 7°	Fine finishing	Finishing	Medium	Roughing		Heavy roughing
	NFS 	NFP 	NMP 	NRF 	NRM 	
	NBO 	NFW  wiper	NMW  wiper	NST 	NRR 	
	CVD Grades					
	 NX1515 (P10-P25)	 NXG115 (P10-P25)	 NX1525 (P20-P35)	 NXG125 (P20-P35)	 NXG140 (P25-P45)	 NX7540 (P25-P45)
	PVD Grades					
	 NX9710 (P05-P10)	 NX9720 (P10-P35)				
	Continuous cut ← → Interrupted cut					

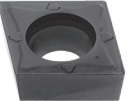
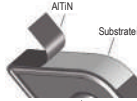
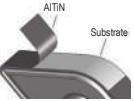
		Fine finishing	Finishing	Medium	Roughing	Heavy roughing	
P 11°		N12 	N13 	FLAT 			
		CVD Grades					
	NX1515 (P15-P25)		NX1525 (P20-P35)		NX7540 (P25-P45)		
		PVD Grades					
	NX9720 (P10-P35)						
		Continuous cut ← → Interrupted cut					

M 5° & 7°	Fine finishing		Finishing		Medium		Roughing		Heavy roughing	
	NFS	NFM	NLM	NMM	NRF	NRM				
										
	NBO	NFW	NMW	wiper	NRR					
										
	CVD Grades									
	 NXS215 (M10-M25)		 NX1525 (M15-M30)		 NXS225 (M15-M30)		 NX7540 (M25-M45)		 NXS240 (M25-M45)	
	PVD Grades									
	NX9710 (M05-M10) 		NX9720 (M10-M25) 							
	Continuous cut ← → Interrupted cut									

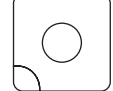
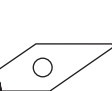
		Fine finishing		Finishing		Medium		Roughing		Heavy roughing	
K	5° & 7°		NFK		NMK		FLAT		NRM		
CVD Grades											
		NX7505 (K05-K15)	Al ₂ O ₃ Ti(C,N) Substrate			NX3520 (K10-K25)	Al ₂ O ₃ Ti(C,N) Substrate				
Uncoated Grades											
		NX0705 (K05-K15)	Substrate								
		Continuous cut ←————→ Interrupted cut									



N 7°	Fine finishing	Finishing	Medium	Roughing	Heavy roughing
		NLN 			
	Uncoated Grades				
		NX0910 (N01-N20) 			
Continuous cut ← → Interrupted cut					

S 5° & 7°	Fine finishing	Finishing	Medium	Roughing	Heavy roughing
	NFS 	NFM 	NLM 	NMM 	
	NBO 	NFW 	NMW 	wiper	wiper
	PVD Grades				
	NX9710 (S05-S10) 	NX9720 (S10-S25) 			
Continuous cut ← → Interrupted cut					



Shape angle		90°	80°	80°	60°	55°	35°	
Geometry shape code	R	S	C	W	T	D	V	
Geometry shape design								
Cutting edge strength	+	← →					+	Accessibility 
Vibration tendency	+	← →					-	Less power consumption Pc (kW) →

Insert shape

The insert shape should be selected relative to the entering angle accessibility from tools requirements.

The largest possible nose angle should be selected to provide insert strength and reliability, however, this has to be balanced against the cut variation need to be performed.

A large nose angle is strong, but requires more machine power and has a higher tendency for vibration.

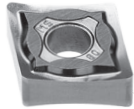
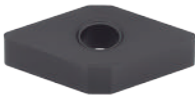
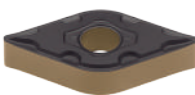
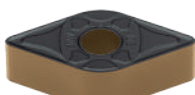
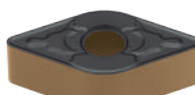
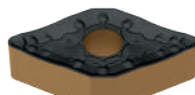
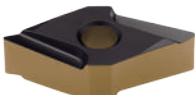
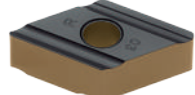
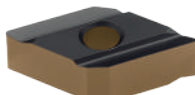
A small nose angle is weaker and has a small cutting edge engagement, both of which can make it more sensitive to the heat effects.

Scale 1: indicates the cutting edge strength. The inserts to the left have larger nose angles and are correspondingly stronger. The right hand inserts have better versatility and accessibility.

Scale 2: indicates that vibration tendencies increase to the left side, while power requirements decrease to the right.

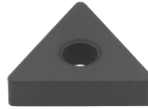
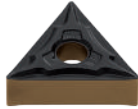
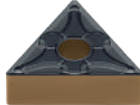
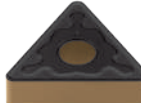
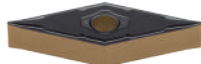
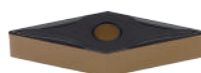
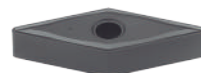
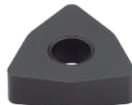
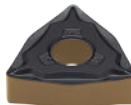
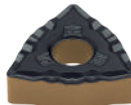
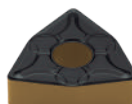
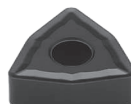
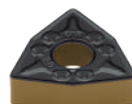
NEGATIVE TURNING INSERTS overview



CNMA  Roughing Rhombic 80°	CNMG-NMF  Finishing Rhombic 80°	CNMG-NSF  Medium to Finishing Rhombic 80°	CNMG-NLC  Medium to Finishing Rhombic 80°	CNMG-NMS  Medium Rhombic 80°	CNMG-NMR  Medium Rhombic 80°
CNMG-NPM  Medium Rhombic 80°	CNMG-NST  Medium Rhombic 80°	CNMG-NMW  Medium wiper Rhombic 80°	CNMG-NSS  Roughing to Medium Rhombic 80°	CNMG-NHR  Roughing Rhombic 80°	
CNMM-NRP  Roughing Rhombic 80°	CNMM-NHY  Heavy to Roughing Rhombic 80°	CNMM-NHZ  Heavy to Roughing Rhombic 80°			
DNMA  Roughing Rhombic 55°	DNMG-NMF  Finishing Rhombic 55°	DNMG-NSF  Medium to Finishing Rhombic 55°	DNMG-NLC  Medium to Finishing Rhombic 55°	DNMG-NMS  Medium Rhombic 55°	DNMG-NMR  Medium Rhombic 55°
DNMG-NPM  Medium Rhombic 55°	DNMG-NST  Medium Rhombic 55°	DNMG-NMW  Medium wiper Rhombic 55°	DNMG-NSS  Roughing to Medium Rhombic 55°	DNMG-NHR  Roughing Rhombic 55°	DNMM-NRP  Roughing Rhombic 55°
DNMX-N02  Medium to Finishing Rhombic 55°	DNMX-N03  Medium Rhombic 55°	DNMX-N01  Roughing to Medium Rhombic 55°			
KNUX-N01  Finishing Parallelogram 55°	KNUX-N02  Medium Parallelogram 55°				
RNMA  Roughing to medium Round R°	RNMG-NST  Medium Round R°				

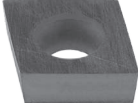
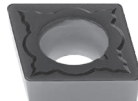
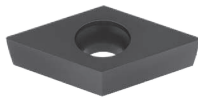
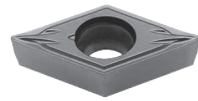
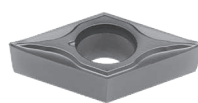
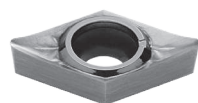
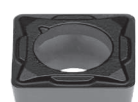
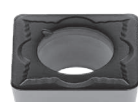
NEGATIVE TURNING INSERTS overview



SNMA  Roughing Square 90°	SNMG-NMF  Finishing Square 90°	SNMG-NSF  Medium to Finishing Square 90°	SNMG-NMR  Medium Square 90°	SNMG-NPM  Medium Square 90°	SNMG-NST  Medium Square 90°
SNMG-NSS  Roughing to Medium Square 90°	SNMG-NHR  Roughing Square 90°	SNMM-NRP  Roughing Square 90°	SNMM-NHY  Heavy to Roughing Square 90°	SNMM-NHZ  Heavy to Roughing Square 90°	SNGN  Medium to Finishing Square 90°
SNUN  Roughing to Medium Square 90°		TNMA  Roughing Triangular 60°	TNMG-NMF  Finishing Triangular 60°	TNMG-NSF  Medium to Finishing Triangular 60°	TNMG-NLC  Medium to Finishing Triangular 60°
TNMG-NMS  Medium Triangular 60°	TNMG-NMR  Medium Triangular 60°	TNMG-NPM  Medium Triangular 60°	TNMG-NST  Medium Triangular 60°	TNMG-NMW  Medium wiper Triangular 60°	TNMG-NSS  Roughing to Medium Triangular 60°
TNMG-NHR  Roughing Triangular 60°	TNMX-N01  Medium to Finishing Triangular 60°		VNMA  Roughing Rhombic 35°	VNMG-NMF  Finishing Rhombic 35°	VNMG-NSF  Medium to Finishing Rhombic 35°
VNMG-NLC  Medium to Finishing Rhombic 35°	VNMG-NMS  Medium Rhombic 35°	VNMG-NMR  Medium Rhombic 35°	VNMG-NPM  Medium Rhombic 35°	VNMG-NST  Medium Rhombic 35°	VNMG-NSS  Roughing to Medium Rhombic 35°
WNMA  Roughing Trigon 80°	WNMG-NMF  Finishing Trigon 80°	WNMG-NSF  Medium to Finishing Trigon 80°	WNMG-NLC  Medium to Finishing Trigon 80°	WNMG-NMS  Medium Trigon 80°	WNMG-NPM  Medium Trigon 80°
WNMG-NMR  Medium Trigon 80°	WNMG-NST  Medium Trigon 80°	WNMG-NMW  Medium wiper Trigon 80°	WNMG-NSS  Roughing to Medium Trigon 80°	WNMG-NHR  Roughing Trigon 80°	

POSITIVE TURNING INSERTS overview

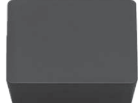
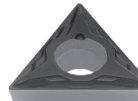
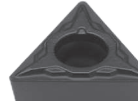
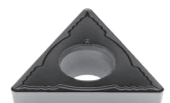
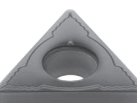
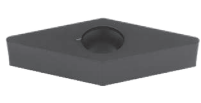
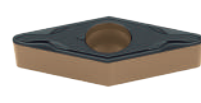
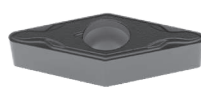
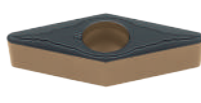
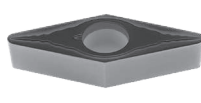
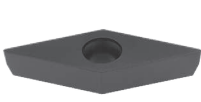
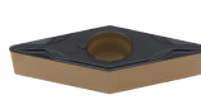
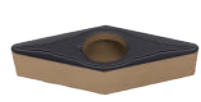
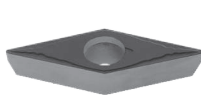
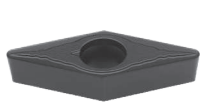


CCMW	CCMT-NFP	CCMT-NBO	CCMT-NFM	CCMT-NFK	CCMT-NFW
					
Finishing Rhombic 80°	Finishing Rhombic 80°	Finishing Rhombic 80°	Finishing Rhombic 80°	Finishing Rhombic 80°	Finishing wiper Rhombic 80°
CCMT-NLM	CCMT-NMP	CCMT-NMM	CCMT-NMK	CCMT-NMW	
					
Medium to Finishing Rhombic 80°	Medium Rhombic 80°	Medium Rhombic 80°	Medium Rhombic 80°	Medium to Finishing wiper Rhombic 80°	
CCGT-NFS	CCGT-NLN				
					
Finishing to Fine finishing Rhombic 80°	Medium to Finishing Rhombic 80°				
DCMW	DCMT-NFP	DCMT-NFM	DCMT-NFK	DCMT-NFW	DCMT-NLM
					
Finishing Rhombic 55°	Finishing Rhombic 55°	Finishing Rhombic 55°	Finishing Rhombic 55°	Finishing wiper Rhombic 55°	Medium to Finishing Rhombic 55°
DCMT-NMP	DCMT-NMM	DCMT-NMK	DCMT-NMW	DCGT-NFS	DCGT-NLN
					
Medium Rhombic 55°	Medium Rhombic 55°	Medium Rhombic 55°	Medium to Finishing wiper Rhombic 55°	Finishing to Fine finishing Rhombic 55°	Medium to Finishing Rhombic 55°
RCMT-NCP	RCMT-NST	RCMT-NRF	RCMT-NRM		
					
Medium Round R°	Roughing to Medium Round R°	Roughing to Medium Round R°	Roughing to Medium Round R°		
RCMX-NST	RCMX-NRM	RCMX-NRR	RCGT-NLN		
					
Roughing to Medium Round R°	Roughing to Medium Round R°	Roughing to Medium Round R°	Finishing to Fine finishing Round R°		
SCMW	SCMT-NFP	SCMT-NFM	SCMT-NFK	SCMT-NMP	SCMT-NMM
					
Finishing Square 90°	Finishing Square 90°	Finishing Square 90°	Finishing Square 90°	Medium Square 90°	Medium Square 90°

TURNING - Tooling technology

POSITIVE TURNING INSERTS overview



SCMT-NMK	SCGT-NLN	SPUN	SPMR-N12	SPMR-N13	
					
Medium Square 90°	Medium to Finishing Square 90°	Medium to Finishing Square 90°	Finishing to Fine finishing Square 90°	Medium Square 90°	
TCMW	TCMT-NFP	TCMT-NFM	TCMT-NFK	TCMT-NFW	TCMT-NMP
					
Finishing Triangular 60°	Finishing Triangular 60°	Finishing Triangular 60°	Finishing Triangular 60°	Finishing wiper Triangular 60°	Medium Triangular 60°
TCMT-NMM	TCMT-NMK	TCMT-NMW		TCGT-NFS	TCGT-NLN
					
Medium Triangular 60°	Medium Triangular 60°	Medium to Finishing wiper Triangular 60°		Finishing to Fine finishing Triangular 60°	Medium to Finishing Triangular 60°
TPUN	TPMR-N12	TPMR-N13			
					
Medium to Finishing Triangular 60°	Finishing to Fine finishing Triangular 60°	Medium Triangular 60°			
VBMW	VBMT-NFP	VBMT-NFM	VBMT-NFK	VBMT-NMP	VBMT-NMM
					
Finishing Rhombic 35°	Finishing Rhombic 35°	Finishing Rhombic 35°	Finishing Rhombic 35°	Medium Rhombic 35°	Medium Rhombic 35°
VBMT-NMK					
					
Medium Rhombic 35°					
VCMW	VCMT-NFP	VCMT-NFM	VCMT-NFK	VCMT-NMP	VCMT-NMM
					
Finishing Rhombic 35°	Finishing Rhombic 35°	Finishing Rhombic 35°	Finishing Rhombic 35°	Medium Rhombic 35°	Medium Rhombic 35°
VCMT-NMK		VCGT-NFS	VCGT-NLN		
					
Medium Rhombic 35°		Finishing to Fine finishing Rhombic 35°	Medium to Finishing Rhombic 35°		

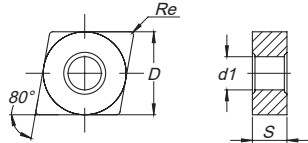
TURNING - Tooling technology

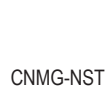
C - RHOMBIC 80°
negative inserts



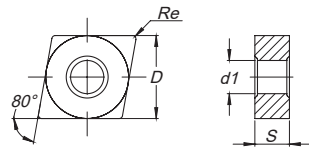
MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX9710	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	CNMA 090304													△	△					9,52	3,18	0,40	3,81	1,50	0,15	3,00	0,15	0,10	0,20
	CNMA 090308													△	△					9,52	3,18	0,80	3,81	1,50	0,15	3,00	0,25	0,10	0,30
	CNMA 120404													●	●					12,70	4,76	0,40	5,16	2,50	0,20	5,00	0,20	0,10	0,30
	CNMA 120408													●	●					12,70	4,76	0,80	5,16	4,00	0,20	8,00	0,35	0,15	0,60
	CNMA 120412													●	●					12,70	4,76	1,20	5,16	4,00	0,30	8,00	0,45	0,20	0,80
	CNMA 120416													●	●					12,70	4,76	1,60	5,16	4,00	0,30	8,00	0,55	0,20	1,00
	CNMA 160608													●	●					15,87	6,35	0,80	6,35	5,00	0,30	10,00	0,45	0,20	0,80
	CNMA 160612													●	●					15,87	6,35	1,20	6,35	5,00	0,30	10,00	0,45	0,20	0,80
	CNMA 160616													●	●					15,87	6,35	1,60	6,35	5,00	0,30	10,00	0,55	0,20	1,00
	CNMA 190612													●	●					19,05	6,35	1,20	7,94	6,00	0,30	12,00	0,45	0,20	0,80
	CNMA 190616													●	●					19,05	6,35	1,60	7,94	6,00	0,30	12,00	0,55	0,20	1,00
	CNMA 190624													●						19,05	6,35	2,40	7,94	6,00	0,40	12,00	0,60	0,20	1,40
	CNMG 090304-NMF	△	●	△	●			△	△											9,53	3,18	0,40	3,81	0,35	0,10	1,50	0,15	0,05	0,25
	CNMG 090308-NMF	△	●	△	●			△	△											9,53	3,18	0,80	3,81	0,35	0,10	1,50	0,20	0,10	0,40
	CNMG 09T304-NMF	△	●					△												9,53	3,97	0,40	3,81	0,35	0,10	1,50	0,15	0,05	0,25
	CNMG 09T308-NMF	△	●					△												9,53	3,97	0,80	3,81	0,35	0,10	1,50	0,20	0,10	0,40
	CNMG 120404-NMF	●	●	△	●	●	△	△	△	●										12,70	4,76	0,40	5,16	0,40	0,10	1,50	0,15	0,05	0,25
	CNMG 120408-NMF	△	●	△	●	●	△	△	△	●										12,70	4,76	0,80	5,16	0,40	0,10	1,50	0,20	0,10	0,40
	CNMG 120412-NMF	△	●	△	●		△	△												12,70	4,76	1,20	5,16	0,80	0,50	2,50	0,25	0,15	0,50
	CNMG 120404-NSF							●		●	●	●					●	●		12,70	4,76	0,40	5,16	1,50	0,60	3,00	0,15	0,10	0,23
	CNMG 120408-NSF							●		●	●	●					●	●		12,70	4,76	0,80	5,16	1,50	0,60	3,00	0,25	0,12	0,38
	CNMG 120412-NSF							●		●	●	●					●	●		12,70	4,76	1,20	5,16	1,50	0,60	3,00	0,35	0,15	0,55
	CNMG 120404-NLC	△	●	△	●															12,70	4,76	0,40	5,16	1,00	0,40	2,50	0,10	0,07	0,30
	CNMG 120408-NLC	●	●	●	△	●														12,70	4,76	0,80	5,16	1,50	0,40	2,50	0,15	0,10	0,40
	CNMG 120412-NLC	△	●	△	●															12,70	4,76	1,20	5,16	1,50	0,40	2,50	0,20	0,15	0,40
	CNMG 120404-NMS											●					●	●		12,70	4,76	0,40	5,16	1,50	0,20	3,60	0,15	0,10	0,20
	CNMG 120408-NMS											●					●	●		12,70	4,76	0,80	5,16	2,00	0,30	3,60	0,25	0,10	0,40
	CNMG 120412-NMS											●					●	●		12,70	4,76	1,20	5,16	2,40	0,40	3,60	0,30	0,15	0,60
	CNMG 120416-NMS											●					○	●		12,70	4,76	1,60	5,16	2,40	0,40	3,60	0,40	0,15	0,80

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request



MAKE YOUR CHOICE		P							M			K		N	S	Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NX3520	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	CNMG 090304-NMR			△	●	△	●		○											9,53	3,18	0,40	3,81	2,00	0,40	4,00	0,20	0,10	0,30
	CNMG 090308-NMR			△	●	△	●	△												9,53	3,18	0,80	3,81	2,00	0,50	4,00	0,30	0,15	0,50
	CNMG 120404-NMR	△		△	●	△	●	△	●											12,70	4,76	0,40	5,16	3,00	0,40	5,50	0,20	0,10	0,30
	CNMG 120408-NMR	△		△	●	●	●	△	●											12,70	4,76	0,80	5,16	3,00	0,50	5,50	0,30	0,15	0,50
	CNMG 120412-NMR	△		△	●	△	●	△	●											12,70	4,76	1,20	5,16	3,00	0,80	5,50	0,35	0,18	0,60
	CNMG 120416-NMR			△	●	△	●	△	●											12,70	4,76	1,60	5,16	3,00	1,00	5,50	0,40	0,23	0,65
	CNMG 160608-NMR	△		△	●	△	●	△	●											15,88	6,35	0,80	6,35	4,00	0,50	7,20	0,30	0,15	0,50
	CNMG 160612-NMR	△		△	●	△	●	△	●											15,88	6,35	1,20	6,35	4,00	0,80	7,20	0,35	0,18	0,60
	CNMG 160616-NMR			△	●	△	●	△	●											15,88	6,35	1,60	6,35	4,00	1,00	7,20	0,40	0,23	0,65
	CNMG 190612-NMR	△		△	●	△	●	△	●											19,05	6,35	1,20	7,94	4,00	0,80	8,60	0,35	0,18	0,60
	CNMG 190616-NMR			△	●	△	●	△	●											19,05	6,35	1,60	7,94	4,00	1,00	8,60	0,40	0,23	0,65
	CNMG 120404-NPM	●		●		●														12,70	4,76	0,40	5,16	3,00	0,40	5,50	0,20	0,10	0,30
	CNMG 120408-NPM	●		●		●														12,70	4,76	0,80	5,16	3,00	0,50	5,50	0,30	0,15	0,50
	CNMG 120412-NPM	●		●		●														12,70	4,76	1,20	5,16	3,00	0,80	5,50	0,35	0,18	0,60
	CNMG 120416-NPM			●		●														12,70	4,76	1,60	5,16	3,00	1,00	5,50	0,40	0,23	0,65
	CNMG 090304-NST													○	○					9,53	3,18	0,40	3,81	2,00	0,15	4,00	0,22	0,15	0,26
	CNMG 090308-NST													○	○					9,53	3,18	0,80	3,81	2,00	0,15	4,00	0,35	0,15	0,50
	CNMG 120404-NST													●	●					12,70	4,76	0,40	5,16	2,50	0,20	5,00	0,22	0,15	0,26
	CNMG 120408-NST													●	●					12,70	4,76	0,80	5,16	3,00	0,20	6,00	0,35	0,15	0,50
	CNMG 120412-NST													●	●					12,70	4,76	1,20	5,16	3,00	0,30	6,00	0,40	0,15	0,60
	CNMG 120416-NST													●	●					12,70	4,76	1,60	5,16	3,00	0,30	6,00	0,45	0,20	0,70
	CNMG 160608-NST													●	●					15,88	6,35	0,80	6,35	4,00	0,20	8,00	0,35	0,15	0,50
	CNMG 160612-NST													●	●					15,88	6,35	1,20	6,35	4,00	0,30	8,00	0,40	0,15	0,60
	CNMG 160616-NST													●	●					15,88	6,35	1,60	6,35	4,00	0,30	8,00	0,45	0,20	0,70
	CNMG 190612-NST													●	●					19,05	6,35	1,20	7,94	4,50	0,30	9,00	0,40	0,15	0,60
CNMG 190616-NST													●	●					19,05	6,35	1,60	7,94	4,50	0,30	9,00	0,45	0,20	0,70	
	CNMG 120408-NMW			△	●	△	●	△	●						●					12,70	4,76	0,80	5,16	3,00	0,50	5,00	0,30	0,15	0,60
	CNMG 120412-NMW			△	●	△	●	△	●						●					12,70	4,76	1,20	5,16	3,50	0,80	6,00	0,50	0,20	0,90

C - RHOMBIC 80°
negative inserts

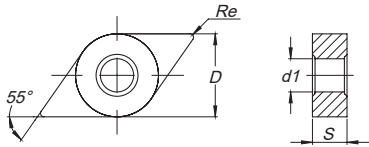


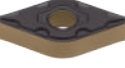
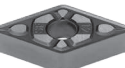
MAKE YOUR CHOICE		P						M						K		S		Dimensions (mm)				Cutting Conditions							
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NXS215	NXS225	NX7540	NXS240	NX9710	NX9720	NX7505	NX3520	NX7540	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	CNMG 090304-NSS									●			●	●				●	●	9,53	3,18	0,40	3,81	2,00	0,50	2,50	0,20	0,10	0,25
	CNMG 090308-NSS									●			●	●				●	●	9,53	3,18	0,80	3,81	2,00	0,50	2,50	0,25	0,12	0,45
	CNMG 120404-NSS									●	△	●	●	●				●	●	12,70	4,76	0,40	5,16	3,00	0,50	5,70	0,20	0,10	0,25
	CNMG 120408-NSS									●	△	●	●	●				●	●	12,70	4,76	0,80	5,16	3,00	0,50	5,70	0,25	0,12	0,45
	CNMG 120412-NSS									●	△	●	●	●				●	●	12,70	4,76	1,20	5,16	3,00	0,50	5,70	0,30	0,15	0,60
	CNMG 120416-NSS									●				●				●		12,70	4,76	1,60	5,16	3,00	0,50	5,70	0,37	0,18	0,65
	CNMG 160608-NSS									●				●				●		15,88	6,35	0,80	6,35	4,00	0,50	7,20	0,25	0,12	0,45
	CNMG 160612-NSS									●				●				●		15,88	6,35	1,20	6,35	4,00	0,50	7,20	0,30	0,15	0,60
	CNMG 190612-NSS										●			●				●		19,05	6,35	1,20	7,94	4,00	0,50	8,50	0,30	0,15	0,60
	CNMG 190616-NSS										●			●				●		19,05	6,35	1,60	7,94	4,00	0,50	8,50	0,37	0,18	0,65
	CNMG 120408-NHR	●	△	●	●	●	△	●							●	●	●			12,70	4,76	0,80	5,16	4,00	1,00	7,00	0,35	0,20	0,55
	CNMG 120412-NHR	●	△	●	△	●	△	●							●	●	●			12,70	4,76	1,20	5,16	4,00	1,00	7,00	0,40	0,25	0,60
	CNMG 120416-NHR		△	●	△	●	△	●							●	●	●			12,70	4,76	1,60	5,16	4,00	1,50	7,00	0,50	0,32	0,75
	CNMG 160608-NHR		△	●	△	●	△	●							●	●	●			15,88	6,35	0,80	6,35	5,00	1,00	8,00	0,35	0,20	0,55
	CNMG 160612-NHR		△	●	△	●	△	●							●	●	●			15,88	6,35	1,20	6,35	5,00	1,00	8,00	0,40	0,25	0,60
	CNMG 160616-NHR		△	●	△	●	△	●							●	●	●			15,88	6,35	1,60	6,35	5,00	1,50	8,00	0,50	0,32	0,75
	CNMG 190612-NHR		△	●	△	●	△	●							●	●	●			19,05	6,35	1,20	7,94	5,50	2,00	10,00	0,40	0,25	0,70
	CNMG 190616-NHR		△	●	△	●	△	●							●	●	●			19,05	6,35	1,60	7,94	5,50	2,00	10,00	0,50	0,32	0,80
	CNMG 250924-NHR				△	●	△	●									●			25,40	9,52	2,40	9,12	6,00	2,00	15,00	0,60	0,40	1,00
	CNMM 160608-NRP			●		●														15,88	6,35	0,80	6,35	3,50	1,00	8,00	0,35	0,20	0,55
	CNMM 160612-NRP			●		●														15,88	6,35	1,20	6,35	3,50	1,00	8,00	0,25	0,25	0,60
	CNMM 160616-NRP			●		●														15,88	6,35	1,60	6,35	3,50	1,50	8,00	0,50	0,32	0,75
	CNMM 190612-NRP		△	●	△	●														19,05	6,35	1,20	7,94	5,50	2,00	10,00	0,40	0,25	0,70
	CNMM 190616-NRP		△	●	△	●														19,05	6,35	1,60	7,94	5,50	2,00	10,00	0,50	0,32	0,80
	CNMM 190624-NRP		△	●	△	●														19,05	6,35	2,40	7,94	6,00	2,00	12,00	0,60	0,35	1,20
	CNMM 190612-NHY		△	●	△	●	△				△	●								19,05	6,35	1,20	7,94	6,00	2,00	12,00	0,50	0,35	0,80
	CNMM 190616-NHY		△	●	△	●	△				△	●								19,05	6,35	1,60	7,94	6,00	2,00	12,00	0,60	0,35	1,00
	CNMM 190624-NHY		△	●	△	●	△				△	●								19,05	6,35	2,40	7,94	6,00	2,00	12,00	0,60	0,35	1,20
	CNMM 250924-NHY		△	●	△	●	△				△	●								25,40	9,52	2,40	9,12	8,00	2,50	15,00	0,70	0,40	1,40
	CNMM 190612-NHZ		△	●	△	●	△	●							●	●				19,05	6,35	1,20	7,94	10,00	2,40	12,00	0,65	0,50	0,80
	CNMM 190616-NHZ		△	●	△	●	△	●							●	●				19,05	6,35	1,60	7,94	10,00	2,40	12,00	0,80	0,50	1,10
	CNMM 190624-NHZ		△	●	△	●	△	●							●	●				19,05	6,35	2,40	7,94	10,00	3,20	12,00	1,00	0,60	1,60
	CNMM 250924-NHZ		△	●	△	●	△	●							●	●				25,40	9,52	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

TURNING - Tooling technology

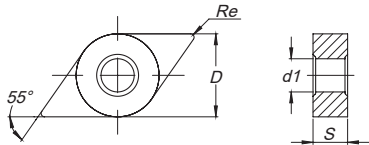
D - RHOMBIC 55°
negative inserts



MAKE YOUR CHOICE		P						M						K	S	Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NX9710	NX1515	NXS215	NX1525	NXS225	NX7540	NX9710	NX9720	NX7505	NX3520	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
 DNMA	DNMA 110404															●	●			9,53	4,76	0,40	3,81	2,00	0,20	3,50	0,15	0,10	0,30
	DNMA 150404															●	●			12,70	4,76	0,40	5,16	3,00	0,20	4,00	0,15	0,10	0,30
	DNMA 150408															●	●			12,70	4,76	0,80	5,16	3,00	0,20	6,00	0,35	0,15	0,60
	DNMA 150412															●	●			12,70	4,76	1,20	5,16	3,00	0,30	6,00	0,45	0,20	0,80
	DNMA 150416															●	●			12,70	4,76	1,60	5,16	3,00	0,30	6,00	0,55	0,20	1,00
	DNMA 150604															●	●			12,70	6,35	0,40	5,16	3,00	0,20	4,00	0,15	0,10	0,30
	DNMA 150608															●	●			12,70	6,35	0,80	5,16	3,00	0,20	6,00	0,35	0,15	0,60
	DNMA 150612															●	●			12,70	6,35	1,20	5,16	3,00	0,30	6,00	0,45	0,20	0,80
	DNMA 150616															●	●			12,70	6,35	1,60	5,16	3,00	0,30	6,00	0,55	0,20	1,00
 DNMG-NMF	DNMG 110404-NMF		△	●	△	●			△		△									9,53	4,76	0,40	3,81	0,40	0,10	1,50	0,15	0,05	0,25
	DNMG 110408-NMF	●	△	●	△	●			△		△									9,53	4,76	0,80	3,81	0,40	0,10	1,50	0,20	0,10	0,40
	DNMG 150404-NMF		△	●	△	●	△	●	△		△		△	●						12,70	4,76	0,40	5,16	0,40	0,10	1,50	0,15	0,05	0,25
	DNMG 150408-NMF		△	●	△	●	△	●	△		△		△	●						12,70	4,76	0,80	5,16	0,40	0,10	1,50	0,20	0,10	0,40
	DNMG 150412-NMF		△	●	△	●			△		△									12,70	4,76	1,20	5,16	0,80	0,20	2,50	0,25	0,15	0,50
	DNMG 150604-NMF		△	●	△	●		●	△		△			●						12,70	6,35	0,40	5,16	0,40	0,10	1,50	0,15	0,05	0,25
	DNMG 150608-NMF		△	●	△	●		●	△		△			●						12,70	6,35	0,80	5,16	0,40	0,10	1,50	0,20	0,10	0,40
	DNMG 150612-NMF		△	●	△	●			△		△									12,70	6,35	1,20	5,16	0,80	0,20	2,50	0,25	0,15	0,50
 DNMG-NSF	DNMG 110404-NSF									●		●		●	●					9,53	4,76	0,40	3,81	1,50	0,60	3,00	0,15	0,10	0,23
	DNMG 110408-NSF									●		●		●	●					9,53	4,76	0,80	3,81	1,50	0,60	3,00	0,25	0,12	0,38
	DNMG 150404-NSF									●		●		●	●		●	●	12,70	4,76	0,40	5,16	1,50	0,60	3,00	0,15	0,10	0,23	
	DNMG 150408-NSF									●		●		●	●		●	●	12,70	4,76	0,80	5,16	1,50	0,60	3,00	0,25	0,12	0,38	
	DNMG 150412-NSF									●		●		●	●		●	●	12,70	4,76	1,20	5,16	1,50	0,60	3,00	0,35	0,15	0,55	
	DNMG 150604-NSF									●		●		●	●		●	●	12,70	6,35	0,40	5,16	1,50	0,60	3,00	0,15	0,10	0,23	
	DNMG 150608-NSF									●		●		●	●		●	●	12,70	6,35	0,80	5,16	1,50	0,60	3,00	0,25	0,12	0,38	
	DNMG 150612-NSF									●		●		●	●		●	●	12,70	6,35	1,20	5,16	1,50	0,60	3,00	0,35	0,15	0,55	
 DNMG-NLC	DNMG 150404-NLC		△	●	△	●														12,70	4,76	0,40	5,16	1,00	0,40	2,50	0,15	0,07	0,30
	DNMG 150408-NLC		△	●	△	●														12,70	4,76	0,80	5,16	1,50	0,40	2,50	0,20	0,10	0,40
	DNMG 150412-NLC		△	●	△	●														12,70	4,76	1,20	5,16	2,00	0,80	3,00	0,25	0,15	0,50
	DNMG 150604-NLC	●	△	●	△	●														12,70	6,35	0,40	5,16	2,00	0,40	3,00	0,15	0,07	0,30
	DNMG 150608-NLC	●	△	●	△	●														12,70	6,35	0,80	5,16	2,00	0,40	3,00	0,20	0,10	0,40
	DNMG 150612-NLC		△	●	△	●														12,70	6,35	1,20	5,16	2,50	0,80	3,50	0,25	0,15	0,50

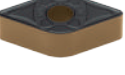
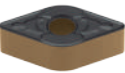
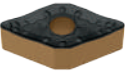
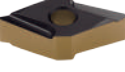
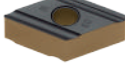
D - RHOMBIC 55°

negative inserts



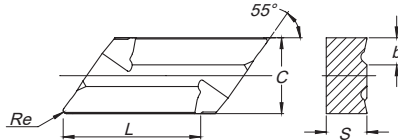
MAKE YOUR CHOICE		P						M					K	N	S	Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	DNMG 150404-NMS													●			●	●	●	12,70	4,76	0,40	5,16	1,50	0,20	3,60	0,15	0,10	0,20
	DNMG 150408-NMS													●			●	●	●	12,70	4,76	0,80	5,16	2,00	0,30	3,80	0,25	0,10	0,40
	DNMG 150412-NMS													●			●	●	●	12,70	4,76	1,20	5,16	2,50	0,40	4,00	0,30	0,15	0,60
	DNMG 150416-NMS													●			○	●	●	12,70	4,76	1,60	5,16	2,80	0,40	4,50	0,40	0,15	0,80
	DNMG 150604-NMS													●			●	●	●	12,70	6,35	0,40	5,16	1,50	0,20	3,60	0,15	0,10	0,20
	DNMG 150608-NMS													●			●	●	●	12,70	6,35	0,80	5,16	2,00	0,30	4,00	0,25	0,10	0,40
	DNMG 150612-NMS													●			○	●	●	12,70	6,35	1,20	5,16	2,80	0,40	4,50	0,30	0,15	0,60
	DNMG 110404-NMR	△	●	△	●															9,53	4,76	0,40	3,81	2,00	0,40	5,00	0,20	0,10	0,30
	DNMG 110408-NMR	△	●	△	●															9,53	4,76	0,80	3,81	2,00	0,50	5,00	0,30	0,15	0,50
	DNMG 150404-NMR	△	●	△	●	△	●													12,70	4,76	0,40	5,16	3,00	0,40	6,00	0,20	0,10	0,30
	DNMG 150408-NMR	△	●	△	●	△	●													12,70	4,76	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
	DNMG 150412-NMR	△	●	△	●	△	●													12,70	4,76	1,20	5,16	3,00	0,80	6,00	0,35	0,18	0,60
	DNMG 150604-NMR	△	●	△	●	△	●													12,70	6,35	0,40	5,16	3,00	0,40	6,00	0,20	0,10	0,30
	DNMG 150608-NMR	●	●	●	●	△	●													12,70	6,35	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
	DNMG 150612-NMR	△	●	●	●	△	●													12,70	6,35	1,20	5,16	3,00	0,80	6,00	0,35	0,18	0,60
	DNMG 150616-NMR			△	●															12,70	6,35	1,60	5,16	3,00	1,00	6,00	0,40	0,23	0,65
	DNMG 150404-NPM	●		●		●														12,70	4,76	0,40	5,16	3,00	0,40	6,00	0,20	0,10	0,30
	DNMG 150408-NPM	●		●		●														12,70	4,76	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
	DNMG 150412-NPM	●		●		●														12,70	4,76	1,20	5,16	3,00	0,80	6,00	0,35	0,18	0,60
	DNMG 150416-NPM			●		●														12,70	4,76	1,60	5,16	3,00	1,00	6,00	0,40	0,23	0,65
	DNMG 150604-NPM	●		●		●														12,70	6,35	0,40	5,16	2,50	0,50	5,00	0,25	0,15	0,40
	DNMG 150608-NPM	●		●		●														12,70	6,35	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
	DNMG 150612-NPM	●		●		●														12,70	6,35	1,20	5,16	3,50	0,50	7,00	0,35	0,20	0,60
	DNMG 150616-NPM			●		●														12,70	6,35	1,60	5,16	3,00	1,00	6,00	0,40	0,23	0,65
	DNMG 110404-NST														●	●				9,53	4,76	0,40	3,81	2,00	0,20	3,50	0,20	0,15	0,30
	DNMG 110408-NST														●	●				9,53	4,76	0,80	3,81	2,00	0,20	3,50	0,35	0,15	0,50
	DNMG 150404-NST														●	●				12,70	4,76	0,40	5,16	2,50	0,20	5,00	0,20	0,15	0,30
	DNMG 150408-NST														●	●				12,70	4,76	0,80	5,16	2,50	0,50	5,00	0,35	0,15	0,50
	DNMG 150412-NST														●	●				12,70	4,76	1,20	5,16	3,00	0,50	6,00	0,50	0,25	0,70
	DNMG 150416-NST														●	●				12,70	4,76	1,60	5,16	3,00	0,30	6,00	0,60	0,25	1,00
	DNMG 150604-NST														●	●				12,70	6,35	0,40	5,16	2,50	0,20	5,00	0,20	0,15	0,30
	DNMG 150608-NST														●	●				12,70	6,35	0,80	5,16	2,50	0,20	5,00	0,35	0,15	0,50
	DNMG 150612-NST														●	●				12,70	6,35	1,20	5,16	3,00	0,30	6,00	0,50	0,15	0,70
	DNMG 150616-NST														●	●				12,70	6,35	1,60	5,16	3,00	0,30	6,00	0,60	0,25	1,00

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

MAKE YOUR CHOICE		P						M						K	S	Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NXS215	NX1525	NXS225	NX7540	NXS240	NX9710	NX9720	NX7505	NX3520	NX7540	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	DNMG 150408-NMW	△	●	△	●	△	●									●				12,70	4,76	0,80	5,16	2,50	0,30	4,00	0,35	0,15	0,60
	DNMG 150412-NMW	△	●	△	●	△	●									●				12,70	4,76	1,20	5,16	3,00	0,50	5,00	0,50	0,25	0,90
	DNMG 150608-NMW	△	●	△	●	△	●									●				12,70	6,35	0,80	5,16	3,00	0,30	4,50	0,35	0,15	0,60
	DNMG 150612-NMW	△	●	△	●	△	●									●				12,70	6,35	1,20	5,16	3,50	0,50	5,50	0,50	0,25	0,90
	DNMG 110408-NSS								△	●				●				●	●	9,53	4,76	0,80	3,81	2,00	0,50	4,40	0,25	0,12	0,45
	DNMG 150404-NSS							●	△	●	△	●	●	●				●	●	12,70	4,76	0,40	5,16	3,00	0,30	6,00	0,25	0,10	0,30
	DNMG 150408-NSS							●	△	●	△	●	●	●				●	●	12,70	4,76	0,80	5,16	3,00	0,50	6,40	0,25	0,12	0,45
	DNMG 150412-NSS							●	△	●	△	●	●	●				●	●	12,70	4,76	1,20	5,16	3,00	0,50	6,40	0,30	0,15	0,60
	DNMG 150604-NSS							●	△	●	△	●	●	●				●	●	12,70	6,35	0,40	5,16	3,00	0,30	6,00	0,25	0,10	0,30
	DNMG 150608-NSS							●	△	●	△	●	●	●				●	●	12,70	6,35	0,80	5,16	3,00	0,50	6,40	0,25	0,12	0,45
	DNMG 150612-NSS							●	△	●	△	●	●	●				●	●	12,70	6,35	1,20	5,16	3,00	0,50	6,40	0,30	0,15	0,60
	DNMG 150616-NSS								△	●				●				●		12,70	6,35	1,60	5,16	3,00	0,50	6,40	0,50	0,20	1,00
	DNMG 150408-NHR	△	●	△	●	△	●								●	●	●			12,70	4,76	0,80	5,16	4,00	0,80	6,00	0,35	0,20	0,55
	DNMG 150412-NHR	△	●	△	●	△	●								●	●	●			12,70	4,76	1,20	5,16	4,00	1,00	6,00	0,40	0,25	0,70
	DNMG 150608-NHR	△	●	△	●	△	●								●	●	●			12,70	6,35	0,80	5,16	4,00	0,80	6,00	0,35	0,20	0,55
	DNMG 150612-NHR	△	●	△	●	△	●								●	●	●			12,70	6,35	1,20	5,16	4,00	1,00	6,00	0,40	0,25	0,70
	DNMG 150616-NHR	△	●	△	●	△	●								●	●	●			12,70	6,35	1,60	5,16	4,00	1,50	6,00	0,50	0,30	0,80
	DNMM 150608-NRP		●		●															12,70	6,35	0,80	5,16	4,00	0,80	6,00	0,35	0,20	0,55
	DNMM 150612-NRP		●		●															12,70	6,35	1,20	5,16	4,00	1,00	6,00	0,40	0,25	0,70
	DNMM 150616-NRP		●		●															12,70	6,35	1,60	5,16	4,00	1,50	6,00	0,50	0,30	0,80
	DNMX 150604-NL02	△	●	△	●				△											12,70	6,35	0,40	5,16	2,50	0,70	5,00	0,20	0,14	0,25
	DNMX 150604-NR02	△	●	△	●				△											12,70	6,35	0,40	5,16	2,50	0,70	5,00	0,20	0,14	0,25
	DNMX 150608-NL02	△	●	△	●				△											12,70	6,35	0,80	5,16	3,00	0,80	5,00	0,35	0,14	0,50
	DNMX 150608-NR02	△	●	△	●				△											12,70	6,35	0,80	5,16	3,00	0,80	5,00	0,35	0,14	0,50
	DNMX 150604-NL03	△	●	△	●				△											12,70	6,35	0,40	5,16	2,70	0,80	5,50	0,20	0,15	0,25
	DNMX 150604-NR03	△	●	△	●				△											12,70	6,35	0,40	5,16	2,70	0,80	5,50	0,20	0,15	0,25
	DNMX 150608-NL03	△	●	△	●				△											12,70	6,35	0,80	5,16	3,20	1,00	6,00	0,35	0,16	0,50
	DNMX 150608-NR03	△	●	△	●				△											12,70	6,35	0,80	5,16	3,20	1,00	6,00	0,35	0,16	0,50
	DNMX 150408-NL01	△	●	△	●				△											12,70	4,76	0,80	5,16	2,50	1,00	5,00	0,35	0,20	0,50
	DNMX 150408-NR01	△	●	△	●				△											12,70	4,76	0,80	5,16	2,50	1,00	5,00	0,35	0,20	0,50
	DNMX 150604-NL01	△	●	△	●				△											12,70	6,35	0,40	5,16	3,00	1,50	6,00	0,25	0,15	0,30
	DNMX 150604-NR01	△	●	△	●				△											12,70	6,35	0,40	5,16	3,00	1,50	6,00	0,25	0,15	0,30
	DNMX 150608-NL01	△	●	△	●				△											12,70	6,35	0,80	5,16	3,50	2,00	6,50	0,35	0,20	0,50
	DNMX 150608-NR01	△	●	△	●				△											12,70	6,35	0,80	5,16	3,50	2,00	6,50	0,35	0,20	0,50

K - PARALLELOGRAM 55°

negative inserts

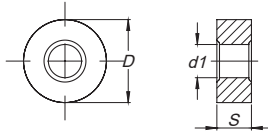


MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)					Cutting Conditions										
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX9710	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	L	C	Re	S	b	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	KNUX 160405-NL01		△	●	△	●		△		△										16,50	9,53	0,50	4,76	2,50	3,00	1,00	6,00	0,30	0,20	0,35
	KNUX 160405-NR01		△	●		●	●	△		●										16,50	9,53	0,50	4,76	2,50	3,00	1,00	6,00	0,30	0,20	0,35
	KNUX 160410-NL02		△	●	△	●		△		△										16,50	9,53	1,00	4,76	3,20	4,00	1,50	6,00	0,50	0,40	0,70
	KNUX 160410-NR02		△	●	△	●		△		△										16,50	9,53	1,00	4,76	3,20	4,00	1,50	6,00	0,50	0,40	0,70

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

R - ROUND R°

negative inserts

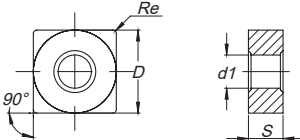


MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NXG105	NX11515	NXG115	NX11525	NXG125	NX7540	NX11515	NXS215	NX11525	NXS225	NX7540	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	RNMA 150600														○					15,88	6,35	-	6,35	4,00	1,50	8,00	0,50	0,15	1,50
	RNMA 2006M0														○					20,00	6,00	-	6,00	5,00	2,00	8,50	0,60	0,20	2,00
	RNMA 250900														○					25,40	9,52	-	9,12	6,00	2,00	9,00	0,80	0,25	2,50
	RNMG 090300-NST			△	●	△				△		△			△	△				9,53	3,18	-	3,18	2,30	0,90	4,50	0,30	0,10	0,90
	RNMG 120400-NST				△	●	△			△		△			△	△				12,70	4,76	-	5,16	3,00	1,20	4,80	0,40	0,12	1,20
	RNMG 150600-NST				△	●	△			△		△				△				15,88	6,35	-	6,35	3,80	1,50	7,50	0,50	0,15	1,50
	RNMG 190600-NST	△			△	●	△			△		△				△				19,05	6,35	-	7,94	4,50	1,90	7,60	0,65	0,20	1,90
	RNMG 250900-NST	△	●		△	●	△	△			△		△			●	△				25,40	9,52	-	9,12	6,30	2,50	10,00	0,80	0,25

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

S - SQUARE 90°

negative inserts



MAKE YOUR CHOICE		P							M					K	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX9710	NXS215	NX1525	NXS225	NX7540	NX9710	NX9720	NX7505	NX3520	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max	
SNMA 	SNMA 090304															●	●			9,53	3,18	0,40	3,81	2,50	0,20	4,50	0,20	0,15	0,30	
	SNMA 090308															●	●			9,53	3,18	0,80	3,81	2,50	0,40	4,50	0,40	0,20	0,60	
	SNMA 120404															●	●			12,70	4,76	0,40	5,16	4,00	0,20	8,00	0,20	0,15	0,30	
	SNMA 120408															●	●			12,70	4,76	0,80	5,16	4,00	0,20	8,00	0,40	0,20	0,60	
	SNMA 120412															●	●			12,70	4,76	1,20	5,16	4,00	0,30	8,00	0,45	0,20	0,80	
	SNMA 120416															●	●			12,70	4,76	1,60	5,16	4,00	0,30	8,00	0,55	0,20	1,00	
	SNMA 150412															●	●			15,88	4,76	1,20	6,35	5,00	0,30	9,00	0,45	0,20	0,80	
	SNMA 150612															●	●			15,88	6,35	1,20	6,35	5,00	0,30	10,00	0,45	0,20	0,80	
	SNMA 190612															●	●			19,05	6,35	1,20	7,94	6,00	0,30	12,00	0,45	0,20	0,80	
	SNMA 190616															●	●			19,05	6,35	1,60	7,94	6,00	0,30	12,00	0,55	0,20	1,00	
	SNMA 190624															●	●			19,05	6,35	2,40	7,94	6,00	0,30	12,00	0,60	0,20	1,20	
	SNMA 250724															●	●			25,40	7,94	2,40	9,12	6,00	0,40	12,00	0,60	0,20	1,40	
SNMG-NMF 	SNMG 120404-NMF	△	●	△	●	△		●		△		△	●							12,70	4,76	0,40	5,16	0,40	0,10	1,50	0,10	0,05	0,25	
	SNMG 120408-NMF	△	●	△	●			●		△			●								12,70	4,76	0,80	5,16	0,40	0,10	1,50	0,20	0,10	0,40
	SNMG 120412-NMF	△	●	△	●					△											12,70	4,76	1,20	5,16	0,80	0,15	2,50	0,30	0,20	0,60
SNMG-NSF 	SNMG 120404-NSF								●		●		●	●		●	●			12,70	4,76	0,40	5,16	2,00	1,00	4,00	0,15	0,10	0,23	
	SNMG 120408-NSF								●		●		●	●		●	●			12,70	4,76	0,80	5,16	2,00	1,00	4,00	0,20	0,12	0,38	
	SNMG 120412-NSF								●		●		●	●		●	●			12,70	4,76	1,20	5,16	2,50	1,00	4,00	0,25	0,15	0,55	
SNMG-NMR 	SNMG 120404-NMR	△	●	△	●	△	●													12,70	4,76	0,40	5,16	3,00	0,40	6,00	0,20	0,10	0,30	
	SNMG 120408-NMR	△	●	●	●	●	△	●													12,70	4,76	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
	SNMG 120412-NMR	△	●	△	●	△	●														12,70	4,76	1,20	5,16	3,00	0,80	6,00	0,35	0,18	0,60
	SNMG 120416-NMR			△	●	△	●														12,70	4,76	1,60	5,16	3,00	1,00	6,00	0,40	0,23	0,65
	SNMG 150608-NMR	△	●	△	●	△	●														15,88	6,35	0,80	6,35	4,00	0,60	7,50	0,30	0,15	0,50
	SNMG 150612-NMR	△	●	△	●	△	●														15,88	6,35	1,20	6,35	4,00	0,80	7,50	0,35	0,18	0,60
	SNMG 150616-NMR					○		○													15,88	6,35	1,60	6,35	4,00	1,00	7,50	0,40	0,23	0,65
	SNMG 190612-NMR	△	●	△	●	△	●														19,05	6,35	1,20	7,94	5,00	0,80	9,00	0,35	0,18	0,60
	SNMG 190616-NMR	△	●	△	●	△	●														19,05	6,35	1,60	7,94	5,00	1,00	9,00	0,40	0,23	0,65
SNMG-NPM 	SNMG 120404-NPM	●	●		●															12,70	4,76	0,40	5,16	3,00	0,40	6,00	0,20	0,10	0,30	
	SNMG 120408-NPM	●	●		●																12,70	4,76	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
	SNMG 120412-NPM	●	●		●																12,70	4,76	1,20	5,16	3,00	0,80	6,00	0,35	0,18	0,60

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

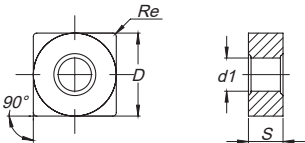
S - SQUARE 90°
negative inserts



MAKE YOUR CHOICE		P						M					K		N	S	Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NXG140	NX9710	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max	
	SNMG 090304-NST													○	○					9,53	3,18	0,40	3,81	2,50	0,20	4,50	0,20	0,15	0,30	
	SNMG 090308-NST													●	●					9,53	3,18	0,80	3,81	2,50	0,20	4,50	0,35	0,15	0,50	
	SNMG 120404-NST														●					12,70	4,76	0,40	5,16	3,00	0,20	6,00	0,20	0,15	0,30	
	SNMG 120408-NST													●	●					12,70	4,76	0,80	5,16	3,00	0,20	6,00	0,35	0,15	0,50	
	SNMG 120412-NST													●	●					12,70	4,76	1,20	5,16	3,00	0,30	6,00	0,40	0,15	0,60	
	SNMG 120416-NST													●	●					12,70	4,76	1,60	5,16	3,00	0,30	6,00	0,45	0,20	0,70	
	SNMG 150612-NST													○	○					15,88	6,35	1,20	6,35	4,00	0,30	8,00	0,40	0,15	0,60	
	SNMG 150616-NST													○	○					15,88	6,35	1,60	6,35	4,00	0,30	8,00	0,45	0,20	0,70	
	SNMG 190612-NST														●	●					19,05	6,35	1,20	7,94	4,50	0,30	9,00	0,40	0,15	0,60
	SNMG 190616-NST														●	●					19,05	6,35	1,60	7,94	4,50	0,30	9,00	0,45	0,20	0,70
	SNMG 090304-NSS										○	●	●				●	●		9,53	3,18	0,40	3,81	2,00	0,50	4,50	0,20	0,10	0,30	
	SNMG 090308-NSS										○	●	●				●	●		9,53	3,18	0,80	3,81	2,00	0,50	4,50	0,25	0,12	0,45	
	SNMG 120404-NSS								△	●	●	●					●	●		12,70	4,76	0,40	5,16	3,00	0,50	6,40	0,20	0,12	0,30	
	SNMG 120408-NSS								△	●	●	●					●	●		12,70	4,76	0,80	5,16	3,00	0,50	6,40	0,25	0,12	0,45	
	SNMG 120412-NSS								△	●	●	●					●	●		12,70	4,76	1,20	5,16	3,00	0,50	6,40	0,30	0,15	0,60	
	SNMG 120416-NSS								△	●										12,70	4,76	1,60	5,16	3,00	0,50	6,40	0,45	0,15	0,80	
	SNMG 150608-NSS								△	●										15,88	6,35	0,80	6,35	4,00	0,50	8,00	0,25	0,12	0,45	
	SNMG 150612-NSS								△	●										15,88	6,35	1,20	6,35	4,00	0,50	8,00	0,30	0,15	0,60	
	SNMG 190616-NSS								△	●										19,05	6,35	1,60	7,94	4,00	0,50	8,00	0,45	0,15	0,80	
	SNMG 120408-NHR	△	●	△	●	△	●							△	●	●				12,70	4,76	0,80	5,16	4,00	0,80	7,00	0,35	0,20	0,55	
	SNMG 120412-NHR	△	●	△	●	△	●							△	●	●				12,70	4,76	1,20	5,16	4,00	1,00	7,00	0,40	0,25	0,70	
	SNMG 120416-NHR	△	●	△	●	△	●								●	●				12,70	4,76	1,60	5,16	4,00	1,50	7,00	0,50	0,32	0,80	
	SNMG 150612-NHR		△	●	△	●									●					15,88	6,35	1,20	6,35	4,00	1,00	8,00	0,40	0,25	0,70	
	SNMG 150616-NHR		△	●	△	●									●					15,88	6,35	1,60	6,35	4,00	1,50	8,00	0,50	0,32	0,80	
	SNMG 190612-NHR	△	●	△	●	△	●								●					19,05	6,35	1,20	7,94	5,00	1,00	10,00	0,40	0,25	0,70	
	SNMG 190616-NHR	△	●	△	●	△	●								●					19,05	6,35	1,60	7,94	5,00	1,50	10,00	0,50	0,32	0,80	
	SNMG 250724-NHR	●																		25,40	7,94	2,40	9,12	6,00	2,00	15,00	1,00	0,40	1,20	
	SNMG 250924-NHR		△	●	△	●										●				25,40	9,52	2,40	9,12	6,00	2,00	15,00	1,00	0,40	1,20	
	SNMM 150608-NRP	●		●																15,88	6,35	0,80	6,35	4,00	1,00	8,00	0,30	0,15	0,50	
	SNMM 150612-NRP	●		●																15,88	6,35	1,20	6,35	4,00	1,00	8,00	0,40	0,25	0,70	
	SNMM 150616-NRP	●		●																15,88	6,35	1,60	6,35	4,00	1,00	8,00	0,50	0,35	0,90	
	SNMM 190612-NRP	△	●	△	●				△											19,05	6,35	1,20	7,94	5,50	2,00	12,00	0,60	0,30	0,85	
	SNMM 190616-NRP	△	●	△	●				△											19,05	6,35	1,60	7,94	6,00	2,00	12,00	0,60	0,35	1,00	
	SNMM 190624-NRP	△	●	△	●				△											19,05	6,35	2,40	7,94	6,00	2,00	12,00	0,80	0,50	1,50	

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

TURNING - Tooling technology

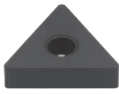
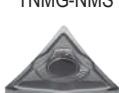


MAKE YOUR CHOICE		P						M					K		N	S	Dimensions (mm)				Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1515	NXS215	NX1525	NXS225	NX7540	NXS240	NX7505	NX3520	NX7540	NX9010	NX9710 NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	SNMM 190612-NHY	△	●	△	●	△	●			△		△	●						19,05	6,35	1,20	7,94	6,00	2,00	12,00	0,60	0,35	0,90
	SNMM 190616-NHY	△	●	△	●	△	●			△		△	●						19,05	6,35	1,60	7,94	6,00	2,00	12,00	0,60	0,35	1,20
	SNMM 190624-NHY	△	●	△	●	△	●			△		△	●						19,05	6,35	2,40	7,94	6,00	2,00	12,00	1,00	0,60	1,60
	SNMM 250724-NHY	△	●	△	●	△	●			△		△	●						25,40	7,94	2,40	9,12	8,50	2,50	15,00	1,00	0,60	1,60
	SNMM 250924-NHY	△	●	△	●	△	●			△		△	●						25,40	9,52	2,40	9,12	8,50	3,00	15,00	1,00	0,60	1,60
	SNMM 190612-NHZ	△	●	△	●	△	●							●	●				19,05	6,35	1,20	7,94	10,00	2,40	13,00	0,60	0,35	0,90
	SNMM 190616-NHZ	△	●	△	●	△	●							●	●				19,05	6,35	1,60	7,94	10,00	2,40	13,00	0,60	0,35	1,20
	SNMM 190624-NHZ	△	●	△	●	△	●							●	●				19,05	6,35	2,40	7,94	10,00	3,20	13,00	1,00	0,60	1,60
	SNMM 250724-NHZ	△	●	△	●	△	●							●	●				25,40	7,94	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60
	SNMM 250732-NHZ			△	●														25,40	7,94	3,20	9,12	10,00	3,20	17,00	1,20	0,80	1,80
	SNMM 250924-NHZ	△	●	△	●	△	●								●	●			25,40	9,52	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60
	SNGN 090308		○																9,53	3,18	0,80	-	2,00	1,20	3,50	0,18	0,10	0,53
	SNGN 120308		○																12,70	3,18	0,80	-	3,00	1,30	5,00	0,20	0,12	0,53
	SNGN 120312		○																12,70	3,18	1,20	-	3,00	2,00	5,00	0,30	0,18	0,80
	SNGN 120408		○																12,70	4,76	0,80	-	3,00	1,50	5,00	0,20	0,12	0,53
	SNGN 120412		○																12,70	4,76	1,20	-	3,00	2,00	5,00	0,30	0,20	0,80
	SNGN 120416		○																12,70	4,76	1,60	-	3,00	2,20	5,00	0,35	0,25	1,07
	SNGN 150408		○																15,88	4,76	0,80	-	3,50	2,40	8,00	0,22	0,15	0,53
	SNGN 150412		○																15,88	4,76	1,20	-	3,50	2,60	8,00	0,35	0,20	0,80
	SNGN 190412		○																19,05	4,76	1,20	-	4,50	3,00	10,00	0,35	0,25	0,80
	SNGN 190416		○																19,05	4,76	1,60	-	4,50	3,20	10,00	0,60	0,30	1,07
	SNUN 090304		○																9,53	3,18	0,40	-	2,00	1,00	3,50	0,15	0,10	0,30
	SNUN 090308		○																9,53	3,18	0,80	-	2,00	1,20	3,50	0,35	0,23	0,60
	SNUN 120304		○																12,70	3,18	0,40	-	3,00	1,30	5,00	0,15	0,10	0,30
	SNUN 120308		○																12,70	3,18	0,80	-	3,00	1,50	5,00	0,35	0,23	0,60
	SNUN 120312		○																12,70	3,18	1,20	-	3,00	2,00	5,00	0,45	0,25	1,00
	SNUN 120404		○																12,70	4,76	0,40	-	3,00	1,30	5,00	0,15	0,10	0,30
	SNUN 120408		○																12,70	4,76	0,80	-	3,00	1,50	5,00	0,35	0,23	0,60
	SNUN 120412		○																12,70	4,76	1,20	-	3,00	2,00	5,00	0,45	0,25	1,00
	SNUN 120416		○																12,70	4,76	1,60	-	3,00	2,20	5,00	0,60	0,25	1,20
	SNUN 150408		○																15,88	4,76	0,80	-	3,50	2,40	8,00	0,35	0,23	0,60
	SNUN 150412		○																15,88	4,76	1,20	-	3,50	2,60	8,00	0,45	0,25	0,60
	SNUN 150416		○																15,88	4,76	1,60	-	3,50	2,90	8,00	0,60	0,25	1,20
	SNUN 190408		○																19,05	4,76	0,80	-	4,50	2,70	10,00	0,35	0,23	0,60
	SNUN 190412		○																19,05	4,76	1,20	-	4,50	3,00	10,00	0,60	0,30	1,00
	SNUN 190416		○																19,05	4,76	1,60	-	4,50	3,20	10,00	0,65	0,25	1,20
	SNUN 190608		○																19,05	6,35	0,80	-	4,50	2,70	10,00	0,35	0,23	0,60
	SNUN 250620		○																25,40	6,35	2,00	-	5,50	3,00	12,00	1,00	0,30	1,50
	SNUN 250720		○																25,40	7,94	2,00	-	5,50	2,00	12,00	1,00	0,30	1,50

T - TRIANGULAR 60°

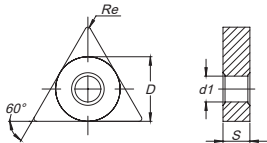
negative inserts



MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX9710	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	TNMA 110304													●	●					6,35	3,18	0,40	2,26	2,00	0,15	4,00	0,20	0,10	0,30
	TNMA 110308													●	●					6,35	3,18	0,80	2,26	2,00	0,15	4,00	0,35	0,15	0,60
	TNMA 160304													●	●					9,53	3,18	0,40	3,81	2,50	0,20	5,00	0,20	0,10	0,30
	TNMA 160308													●	●					9,53	3,18	0,80	3,81	2,50	0,20	5,00	0,35	0,15	0,60
	TNMA 160404													●	●					9,53	4,76	0,40	3,81	2,50	0,20	5,00	0,20	0,10	0,30
	TNMA 160408													●	●					9,53	4,76	0,80	3,81	3,50	0,20	7,00	0,35	0,15	0,60
	TNMA 160412													●	●					9,53	4,76	1,20	3,81	3,50	0,30	7,00	0,45	0,20	0,80
	TNMA 160416													●	●					9,53	4,76	1,60	3,81	3,50	0,30	7,00	0,55	0,20	1,00
	TNMA 220404														●	●				12,70	4,76	0,40	5,16	4,00	0,20	10,00	0,20	0,10	0,30
	TNMA 220408														●	●				12,70	4,76	0,80	5,16	5,00	0,20	10,00	0,35	0,15	0,60
	TNMA 220412														●	●				12,70	4,76	1,20	5,16	5,00	0,30	10,00	0,45	0,20	0,80
	TNMA 220416														●	●				12,70	4,76	1,60	5,16	5,00	0,30	10,00	0,55	0,20	1,00
	TNMA 220432														○	△				12,70	4,76	3,20	5,16	5,00	0,50	10,00	0,60	0,50	1,20
	TNMA 270608														●	●				15,88	6,35	0,80	6,35	5,00	0,30	12,00	0,35	0,15	0,60
	TNMA 270612														●	●				15,88	6,35	1,20	6,35	5,00	0,30	12,00	0,45	0,20	0,80
	TNMA 270616														●	●				15,88	6,35	1,60	6,35	5,00	0,30	12,00	0,55	0,20	1,00
	TNMA 330724														●	●				19,05	7,94	2,40	7,94	6,50	0,30	15,00	0,60	0,30	2,00
	TNMG 160404-NMF	●	△	●	△	●		△		△		●								9,53	4,76	0,40	3,81	0,40	0,10	1,50	0,15	0,05	0,25
	TNMG 160408-NMF	●	●	●	△	●				△		●								9,53	4,76	0,80	3,81	0,40	0,10	1,50	0,20	0,10	0,40
	TNMG 160412-NMF		△	●	△	●		△		△										9,53	4,76	1,20	3,81	1,00	0,20	2,50	0,30	0,15	0,60
	TNMG 220408-NMF		△	●				△												12,70	4,76	0,80	5,16	1,50	0,25	2,50	0,20	0,10	0,40
	TNMG 160404-NSF								●			●	●					●	●	9,53	4,76	0,40	3,81	1,50	0,60	3,00	0,15	0,10	0,23
	TNMG 160408-NSF								●			●	●					●	●	9,53	4,76	0,80	3,81	1,50	0,60	3,00	0,25	0,12	0,38
	TNMG 160412-NSF								●			●	●					●	●	9,53	4,76	1,20	3,81	1,50	0,60	3,00	0,35	0,15	0,55
	TNMG 220404-NSF								●			●	●					●	●	12,70	4,76	0,40	5,16	1,50	0,60	3,00	0,20	0,10	0,35
	TNMG 220408-NSF								●			●	●					●	●	12,70	4,76	0,80	5,16	1,50	0,60	3,00	0,25	0,12	0,40
	TNMG 220412-NSF								●			●	●					●	●	12,70	4,76	1,20	5,16	1,50	0,60	3,00	0,35	0,15	0,55
	TNMG 160404-NLC	●	△	●	△	●														9,53	4,76	0,40	3,81	1,00	0,40	2,50	0,15	0,07	0,30
	TNMG 160408-NLC		△	●	△	●														9,53	4,76	0,80	3,81	1,50	0,40	2,50	0,20	0,10	0,40
	TNMG 160412-NLC		△	●	△	●														9,53	4,76	1,20	3,81	2,00	0,80	3,00	0,25	0,15	0,50
	TNMG 220408-NLC		△	●	△	●														12,70	4,76	0,80	5,16	2,00	0,40	3,00	0,20	0,10	0,40
	TNMG 220412-NLC		△	●	△	●														12,70	4,76	1,20	5,16	2,50	0,80	3,50	0,25	0,15	0,50
	TNMG 160404-NMS												●				●	●	9,53	4,76	0,40	3,81	2,00	0,30	3,80	0,15	0,10	0,20	
	TNMG 160408-NMS												●				●	●	9,53	4,76	0,80	3,81	2,00	0,30	3,80	0,25	0,10	0,40	
	TNMG 160412-NMS												●				●	●	9,53	4,76	1,20	3,81	2,00	0,40	3,80	0,30	0,15	0,60	

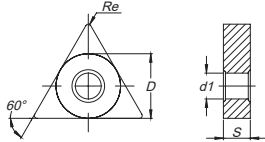
● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

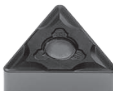
TURNING - Tooling technology



MAKE YOUR CHOICE		P						M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1515	NXS215	NX1525	NXS225	NX9710	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max	
	TNMG 160308-NMR	△	●	△	●															9,53	3,18	0,80	3,81	2,80	0,30	5,00	0,30	0,15	0,50	
	TNMG 160404-NMR	△	●	△	●	△	●													9,53	4,76	0,40	3,81	3,00	0,40	5,00	0,20	0,10	0,30	
	TNMG 160408-NMR	△	●	●	●	●	△	●												9,53	4,76	0,80	3,81	3,00	0,50	5,00	0,30	0,15	0,50	
	TNMG 160412-NMR	△	●	△	●	●	△	●												9,53	4,76	1,20	3,81	3,00	0,80	5,00	0,35	0,18	0,60	
	TNMG 160416-NMR					○		○												9,53	4,76	1,60	3,81	3,00	0,80	5,00	0,40	0,23	0,70	
	TNMG 220404-NMR	△	●	△	●	△	●														12,70	4,76	0,40	5,16	4,00	0,40	6,60	0,20	0,10	0,30
	TNMG 220408-NMR	△	●	●	●	△	●														12,70	4,76	0,80	5,16	4,00	0,50	6,60	0,30	0,15	0,50
	TNMG 220412-NMR	△	●	△	●	△	●														12,70	4,76	1,20	5,16	4,00	0,80	6,60	0,35	0,18	0,60
	TNMG 220416-NMR				△	●	△	●													12,70	4,76	1,60	5,16	4,00	1,00	6,60	0,40	0,23	0,70
	TNMG 160404-NPM	●		●		●														9,53	4,76	0,40	3,81	3,00	0,40	5,00	0,20	0,10	0,30	
	TNMG 160408-NPM	●		●		●														9,53	4,76	0,80	3,81	3,00	0,50	5,00	0,30	0,15	0,50	
	TNMG 160412-NPM	●		●		●														9,53	4,76	1,20	3,81	3,00	0,80	5,00	0,35	0,18	0,60	
	TNMG 160416-NPM			●		●														9,53	4,76	1,60	3,81	3,00	1,00	5,00	0,40	0,23	0,65	
	TNMG 220404-NPM			●		●														12,70	4,76	0,40	5,16	4,00	0,40	6,60	0,20	0,10	0,30	
	TNMG 220408-NPM			●		●														12,70	4,76	0,80	5,16	4,00	0,50	6,60	0,30	0,15	0,50	
	TNMG 220412-NPM			●		●														12,70	4,76	1,20	5,16	4,00	0,80	6,60	0,35	0,18	0,60	
	TNMG 220416-NPM			●		●														12,70	4,76	1,60	5,16	4,00	1,00	6,60	0,40	0,23	0,60	
	TNMG 110304-NST														△					6,35	3,18	0,40	2,26	2,00	0,15	4,50	0,22	0,15	0,30	
	TNMG 110308-NST														●					6,35	3,18	0,80	2,26	2,00	0,15	4,50	0,35	0,15	0,50	
	TNMG 160304-NST														●					9,53	3,18	0,40	3,81	3,00	0,20	5,50	0,22	0,15	0,30	
	TNMG 160308-NST														●					9,53	3,18	0,80	3,81	3,00	0,20	5,50	0,35	0,15	0,50	
	TNMG 160404-NST													●	●					9,53	4,76	0,40	3,81	3,00	0,20	5,50	0,22	0,15	0,30	
	TNMG 160408-NST													●	●					9,53	4,76	0,80	3,81	3,00	0,20	5,50	0,35	0,15	0,50	
	TNMG 160412-NST													●	●					9,53	4,76	1,20	3,81	3,00	0,30	5,50	0,40	0,15	0,60	
	TNMG 160416-NST													●	●					9,53	4,76	1,60	3,81	3,00	0,30	5,50	0,40	0,15	0,60	
	TNMG 220404-NST													●	●					12,70	4,76	0,40	5,16	4,00	0,20	8,00	0,22	0,15	0,30	
	TNMG 220408-NST													●	●					12,70	4,76	0,80	5,16	4,00	0,20	8,00	0,35	0,15	0,50	
	TNMG 220412-NST													●	●					12,70	4,76	1,20	5,16	4,00	0,30	8,00	0,40	0,15	0,60	
	TNMG 220416-NST													●	●					12,70	4,76	1,60	5,16	4,00	0,30	8,00	0,45	0,20	0,70	
	TNMG 270608-NST														○						15,88	6,35	0,80	6,35	4,40	0,30	8,80	0,35	0,15	0,50
	TNMG 270612-NST														○						15,88	6,35	1,20	6,35	4,40	0,30	8,80	0,40	0,15	0,60
	TNMG 270616-NST														○						15,88	6,35	1,60	6,35	4,40	0,30	8,80	0,45	0,20	0,70
	TNMG 330924-NST														○						19,05	9,52	2,40	7,94	4,80	0,30	10,50	0,60	0,25	1,40

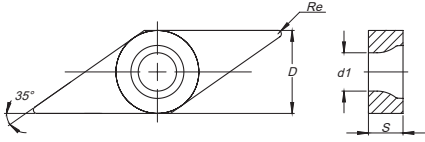
T - TRIANGULAR 60°
negative inserts

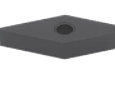
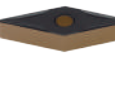
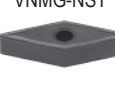
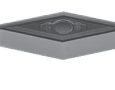


MAKE YOUR CHOICE		P						M						K	S	Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NX3520	NXG105	NXG115	NXG125	NX7540	NXG140	NXS215	NX1525	NXS225	NX7540	NXS240	NX9710	NX9720	NX7505	NX3520	NX7540	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	TNMG 160408-NMW			●	●	△	●									●				9,53	4,76	0,80	3,81	2,00	0,50	4,50	0,35	0,15	0,60
	TNMG 160412-NMW			●	●	△	●									●				9,53	4,76	1,20	3,81	2,50	0,50	5,00	0,50	0,25	0,90
	TNMG 160404-NSS							●	△	●	△	●	●	●			●	●		9,53	4,76	0,40	3,81	2,00	0,50	4,00	0,20	0,10	0,30
	TNMG 160408-NSS							●	△	●	△	●	●	●			●	●		9,53	4,76	0,80	3,81	3,00	0,50	4,80	0,25	0,12	0,45
	TNMG 160412-NSS							●	△	●	△	●	●	●			●	●		9,53	4,76	1,20	3,81	3,00	0,50	4,80	0,30	0,15	0,60
	TNMG 220408-NSS							●	△	●	△	●	●	●			●	●		12,70	4,76	0,80	5,16	4,00	0,50	6,60	0,25	0,12	0,45
	TNMG 220412-NSS								△	●				●				●			12,70	4,76	1,20	5,16	4,00	0,50	6,60	0,30	0,15
	TNMG 160408-NHR	△	●	●	●	△	●								●	●	●			9,53	4,76	0,80	3,81	3,00	0,80	6,00	0,35	0,20	0,55
	TNMG 160412-NHR			●	●	△	●								●	●	●			9,53	4,76	1,20	3,81	3,00	1,00	6,00	0,40	0,25	0,70
	TNMG 220408-NHR			●	●	△	●								●	●	●			12,70	4,76	0,80	5,16	4,00	0,80	6,50	0,35	0,20	0,55
	TNMG 220412-NHR			●	●	△	●								●	●	●			12,70	4,76	1,20	5,16	4,00	1,00	7,00	0,40	0,25	0,70
	TNMG 220416-NHR			●	●	△	●								●	●	●			12,70	4,76	1,60	5,16	4,00	1,50	7,00	0,60	0,25	0,90
	TNMG 270612-NHR				●	△	●									●				15,88	6,35	1,20	6,35	6,00	2,00	10,00	0,40	0,25	0,70
	TNMG 270616-NHR					△	●									●				15,88	6,35	1,60	6,35	6,00	2,00	10,00	0,60	0,35	0,90
	TNMG 330924-NHR						○										○	○		19,05	9,52	2,40	7,94	7,00	2,00	12,00	0,80	0,40	1,20
	TNMX 160404-NL01			●	●				△											9,53	4,76	0,40	3,81	2,50	1,00	3,50	0,15	0,12	0,30
	TNMX 160404-NR01			●	●		○		△											9,53	4,76	0,40	3,81	2,50	1,00	3,50	0,15	0,12	0,30
	TNMX 160408-NL01			●	●				△											9,53	4,76	0,80	3,81	2,50	1,30	3,50	0,30	0,15	0,50
	TNMX 160408-NR01			●	●				●											9,53	4,76	0,80	3,81	2,50	1,30	3,50	0,30	0,15	0,50

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

V - RHOMBIC 35°
negative inserts

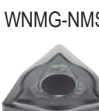
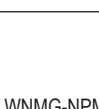


MAKE YOUR CHOICE		P								M				K	N	S	Dimensions (mm)				Cutting Conditions								
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX9710	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	VNMA 160404														●	●				9,53	4,76	0,40	3,81	0,20	0,10	3,30	0,15	0,08	0,25
	VNMA 160408														●	●				9,53	4,76	0,80	3,81	0,20	0,10	3,30	0,30	0,10	0,50
	VNMG 160404-NMF		△	●	△	●			●		△		●							9,53	4,76	0,40	3,81	0,40	0,10	1,50	0,15	0,05	0,25
	VNMG 160408-NMF	●	△	●	△	●		●		△		●								9,53	4,76	0,80	3,81	0,40	0,10	1,50	0,20	0,10	0,40
	VNMG 160404-NSF								●		●	●	●				●	●	9,53	4,76	0,40	3,81	1,50	0,60	3,00	0,15	0,10	0,23	
	VNMG 160408-NSF								●		●	●	●				●	●	9,53	4,76	0,80	3,81	1,50	0,60	3,00	0,25	0,12	0,38	
	VNMG 160412-NSF								●		●	●	●				●	●	9,53	4,76	1,20	3,81	1,50	0,60	3,00	0,35	0,15	0,55	
	VNMG 160408-NLC		△	●	△	●														9,53	4,76	0,80	3,81	1,00	0,35	2,00	0,12	0,08	0,35
	VNMG 160404-NMS										○		●				●	●	9,53	4,76	0,40	3,81	2,00	0,20	4,00	0,15	0,10	0,20	
	VNMG 160408-NMS										○		●				●	●	9,53	4,76	0,80	3,81	2,50	0,20	4,00	0,25	0,15	0,40	
	VNMG 160404-NMR		△	●	△	●	△	●												9,53	4,76	0,40	3,81	3,00	1,00	4,00	0,25	0,10	0,30
	VNMG 160408-NMR		●	●	●	●	●	△	●											9,53	4,76	0,80	3,81	3,00	1,00	4,00	0,30	0,15	0,50
	VNMG 220408-NMR		△	●	△	●	△	●												12,70	4,76	0,80	5,16	4,00	1,50	5,00	0,35	0,15	0,50
	VNMG 160404-NPM	●		●		●														9,53	4,76	0,40	3,81	3,00	1,00	4,00	0,25	0,10	0,30
	VNMG 160408-NPM	●		●		●														9,53	4,76	0,80	3,81	3,00	1,00	4,00	0,30	0,15	0,50
	VNMG 160404-NST														●	●				9,53	4,76	0,40	3,81	2,00	0,20	3,50	0,30	0,15	0,40
	VNMG 160408-NST														●	●				9,53	4,76	0,80	3,81	2,00	0,30	3,50	0,35	0,15	0,50
	VNMG 160404-NSS									△	●	●	●	●			●	●	9,53	4,76	0,40	3,81	1,50	0,50	4,00	0,20	0,10	0,30	
	VNMG 160408-NSS									△	●	●	●	●			●	●	9,53	4,76	0,80	3,81	2,00	0,50	4,00	0,25	0,12	0,45	

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

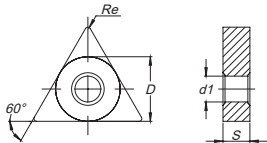
W - TRIGON 80°
negative inserts

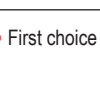


MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX9710	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	WNMA 060408													●	●					9,53	4,76	0,80	3,81	2,50	0,20	4,00	0,35	0,15	0,60
	WNMA 080404													●	●					12,70	4,76	0,40	5,16	2,80	0,20	5,00	0,22	0,15	0,30
	WNMA 080408													●	●					12,70	4,76	0,80	5,16	3,00	0,20	5,00	0,35	0,15	0,60
	WNMA 080412													●	●					12,70	4,76	1,20	5,16	3,00	0,30	5,00	0,45	0,20	0,80
	WNMA 080416													●	●					12,70	4,76	1,60	5,16	3,00	0,30	5,00	0,55	0,20	1,00
	WNMG 06T304-NMF	△	●	△	●		△	△												9,53	3,97	0,40	3,81	0,40	0,10	1,50	0,15	0,05	0,30
	WNMG 06T308-NMF	△	●	△	●		△	△												9,53	3,97	0,80	3,81	0,40	0,10	1,50	0,20	0,10	0,40
	WNMG 06T312-NMF	△	●	△	●		△	△												9,53	3,97	1,20	3,81	0,40	0,15	1,50	0,30	0,15	0,60
	WNMG 060404-NMF	△	●	△	●		△	△												9,53	4,76	0,40	3,81	0,40	0,10	1,50	0,15	0,05	0,30
	WNMG 060408-NMF	△	●	△	●		△	△												9,53	4,76	0,80	3,81	0,40	0,10	1,50	0,20	0,10	0,40
	WNMG 060412-NMF	△	●	△	●		△	△												9,53	4,76	1,20	3,81	0,40	0,15	1,50	0,30	0,15	0,60
	WNMG 080404-NMF	△	●	△	●	●	△	△	●											12,70	4,76	0,40	5,16	0,60	0,10	2,00	0,15	0,05	0,30
	WNMG 080408-NMF	●	△	●	△	●	●	△	△	●										12,70	4,76	0,80	5,16	0,60	0,10	2,00	0,20	0,10	0,40
	WNMG 080412-NMF	△	●	△	●		△	△												12,70	4,76	1,20	5,16	0,60	0,15	2,00	0,30	0,15	0,60
	WNMG 060404-NSF							●		●	●	●					●	●	9,53	4,76	0,40	3,81	1,50	0,60	3,00	0,15	0,10	0,23	
	WNMG 060408-NSF							●		●	●	●					●	●	9,53	4,76	0,80	3,81	1,50	0,60	3,00	0,25	0,12	0,38	
	WNMG 060412-NSF							●		●	●	●					●	●	9,53	4,76	1,20	3,81	1,50	0,60	3,00	0,35	0,15	0,55	
	WNMG 080404-NSF							●		●	●	●					●	●	12,70	4,76	0,40	5,16	1,50	0,60	3,00	0,15	0,10	0,23	
	WNMG 080408-NSF							●		●	●	●					●	●	12,70	4,76	0,80	5,16	1,50	0,60	3,00	0,25	0,12	0,38	
	WNMG 080412-NSF							●		●	●	●					●	●	12,70	4,76	1,20	5,16	1,50	0,60	3,00	0,35	0,15	0,55	
	WNMG 080408-NLC	●	△	●	△	●														12,70	4,76	0,40	5,16	1,50	0,40	2,50	0,15	0,10	0,35
	WNMG 060404-NMS								○		●						●		9,53	4,76	0,40	3,81	1,20	0,30	2,20	0,15	0,10	0,20	
	WNMG 060408-NMS								○		●						●		9,53	4,76	0,80	3,81	1,20	0,30	2,20	0,25	0,20	0,40	
	WNMG 080408-NMS											●					●	●	12,70	4,76	0,80	5,16	2,50	0,70	4,00	0,25	0,20	0,40	
	WNMG 080412-NMS											●					●	●	12,70	4,76	1,20	5,16	2,50	1,00	4,00	0,30	0,25	0,55	
	WNMG 060404-NPM	●	●		●															9,53	4,76	0,40	3,81	2,50	0,50	3,00	0,22	0,10	0,30
	WNMG 060408-NPM	●	●		●															9,53	7,76	0,80	3,81	2,50	0,50	3,00	0,30	0,15	0,50
	WNMG 080404-NPM	●	●		●															12,70	4,76	0,40	5,16	2,50	0,50	4,00	0,22	0,10	0,30
	WNMG 080408-NPM	●	●		●															12,70	4,76	0,80	5,16	2,50	0,50	4,00	0,30	0,15	0,50
	WNMG 080412-NPM	●	●		●															12,70	4,76	1,20	5,16	2,50	0,80	4,00	0,35	0,18	0,60
	WNMG 080416-NPM		●		●															12,70	4,76	1,60	5,16	3,00	1,00	4,50	0,35	0,20	0,65

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

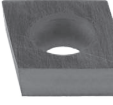
TURNING - Tooling technology



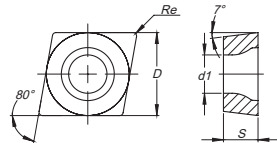
MAKE YOUR CHOICE		P						M				K		S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NXS215	NXS225	NX7540	NXS240	NX9710	NX9720	NX7505	NX3520	NX7540	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	WNMG 06T304-NMR	△	●	△	●															9,53	3,97	0,40	3,81	2,00	0,50	3,00	0,22	0,10	0,30
	WNMG 06T308-NMR	△	●	△	●															9,53	3,97	0,80	3,81	2,00	0,50	3,00	0,30	0,15	0,50
	WNMG 06T312-NMR	△	●	△	●															9,53	3,97	1,20	3,81	2,00	0,80	3,00	0,35	0,18	0,60
	WNMG 060404-NMR	△	●	△	●															9,53	4,76	0,40	3,81	2,00	0,50	3,00	0,22	0,10	0,30
	WNMG 060408-NMR	△	●	△	●															9,53	4,76	0,80	3,81	2,00	0,50	3,00	0,30	0,15	0,50
	WNMG 060412-NMR	△	●	△	●															9,53	4,76	1,20	3,81	2,00	0,80	3,00	0,35	0,18	0,60
	WNMG 080404-NMR	△	●	△	●	△	●													12,70	4,76	0,40	5,16	2,50	0,50	4,00	0,22	0,10	0,30
	WNMG 080408-NMR	△	●	●	●	●	△	●												12,70	4,76	0,80	5,16	2,50	0,50	4,00	0,30	0,15	0,50
	WNMG 080412-NMR	△	●	△	●	△	●													12,70	4,76	1,20	5,16	2,50	0,80	4,00	0,35	0,18	0,60
	WNMG 080416-NMR	△	●	△	●	△	●													12,70	4,76	1,60	5,16	3,00	1,00	4,00	0,40	0,23	0,65
	WNMG 080404-NST														●	●				12,70	4,76	0,40	5,16	2,50	0,20	5,00	0,22	0,15	0,30
	WNMG 080408-NST														●	●				12,70	4,76	0,80	5,16	2,50	0,20	5,00	0,35	0,15	0,50
	WNMG 080412-NST														●	●				12,70	4,76	1,20	5,16	2,50	0,30	5,00	0,40	0,15	0,60
	WNMG 080416-NST														●	●				12,70	4,76	1,60	5,16	2,50	0,30	5,00	0,45	0,20	0,70
	WNMG 060408-NMW	△	●	△	●	△	●								△	●				9,53	4,76	0,80	3,81	1,50	0,50	3,50	0,30	0,15	0,60
	WNMG 060412-NMW	△	●	△	●	△	●									●				9,53	4,76	1,20	3,81	1,50	0,80	3,50	0,50	0,20	0,90
	WNMG 080408-NMW	△	●	△	●	△	●									●				12,70	4,76	0,80	5,16	3,00	0,50	5,00	0,30	0,15	0,60
	WNMG 080412-NMW	△	●	△	●	△	●								△	●				12,70	4,76	1,20	5,16	3,50	0,80	6,00	0,50	0,20	0,90
	WNMG 06T304-NSS												○	●				○	○	9,53	3,97	0,40	3,81	2,00	0,50	3,00	0,20	0,12	0,30
	WNMG 06T308-NSS												○	●				○	○	9,53	3,97	0,80	3,81	2,00	0,50	3,00	0,25	0,12	0,45
	WNMG 060404-NSS								●	●				●	●			●	●	9,53	4,76	0,40	3,81	2,00	0,50	3,00	0,20	0,12	0,30
	WNMG 060408-NSS								●	●	△	●	●	●				●	●	9,53	4,76	0,80	3,81	2,00	0,50	3,00	0,25	0,12	0,45
	WNMG 080404-NSS								●	●	△	●	●	●				●	●	12,70	4,76	0,40	5,16	2,00	0,50	3,00	0,20	0,12	0,30
	WNMG 080408-NSS								●	●	△	●	●	●				●	●	12,70	4,76	0,80	5,16	2,50	0,50	4,00	0,25	0,12	0,45
	WNMG 080412-NSS								●	●	△	●	●	●				●	●	12,70	4,76	1,20	5,16	2,50	0,50	4,00	0,30	0,15	0,60
	WNMG 080408-NHR	●	△	●	△	●	△	●							●	●	●			12,70	4,76	0,80	5,16	4,00	0,80	5,00	0,35	0,20	0,55
	WNMG 080412-NHR	●	△	●	△	●	△	●							●	●	●			12,70	4,76	1,20	5,16	4,00	1,50	5,00	0,40	0,25	0,70

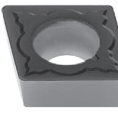
C - RHOMBIC 80°
positive inserts - relief angle 7°



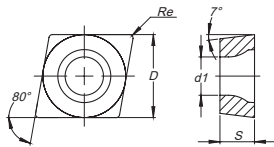
MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	CCMW 060202													○						6,35	2,38	0,20	2,80	1,50	0,05	3,00	0,10	0,04	0,13
	CCMW 060204													●						6,35	2,38	0,40	2,80	1,50	0,05	3,00	0,20	0,08	0,26
	CCMW 080304													○						7,94	3,18	0,40	3,40	1,50	0,05	3,00	0,20	0,08	0,26
	CCMW 09T304													●						9,53	3,97	0,40	4,40	2,30	0,05	4,50	0,20	0,08	0,26
	CCMW 09T308													○						9,53	3,97	0,80	4,40	2,30	0,05	4,50	0,40	0,16	0,53
	CCMW 120404													○						12,70	4,76	0,40	5,50	3,10	0,05	6,00	0,20	0,08	0,26
	CCMW 120408													△ △						12,70	4,76	0,80	5,50	3,10	0,05	6,00	0,40	0,16	0,53
	CCMT 060202-NFP			△	●															6,35	2,38	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,11
	CCMT 060204-NFP	△	●	△	●	●														6,35	2,38	0,40	2,80	0,30	0,10	1,70	0,08	0,05	0,17
	CCMT 09T302-NFP			△	●															9,53	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,13
	CCMT 09T304-NFP	△	●	△	●	●														9,53	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
	CCMT 09T308-NFP	△	●	△	●	●														9,53	3,97	0,80	4,40	0,35	0,15	2,00	0,20	0,08	0,45
	CCMT 120404-NFP	△	●	△	●															12,70	4,76	0,40	5,50	0,42	0,14	2,40	0,14	0,07	0,27
	CCMT 060202-NBO					●	●			○	●	●					●	●		6,35	2,38	0,20	2,80	0,50	0,30	1,00	0,08	0,05	0,13
	CCMT 060204-NBO					●	●			○	●	●					●	●		6,35	2,38	0,40	2,80	0,50	0,30	1,00	0,13	0,08	0,20
	CCMT 060208-NBO						●			○		●						●		6,35	2,38	0,80	2,80	0,50	0,30	1,00	0,20	0,10	0,30
	CCMT 09T304-NBO					●	●			○	●	●					●	●		9,53	3,97	0,40	4,40	0,80	0,50	1,20	0,13	0,08	0,20
	CCMT 09T308-NBO					●	●			○	●	●					●	●		9,53	3,97	0,80	4,40	0,80	0,50	1,20	0,20	0,10	0,30
	CCMT 120404-NBO					●	●			○	●	●					●	●		12,70	4,76	0,40	5,50	1,00	0,50	1,50	0,13	0,08	0,20
	CCMT 120408-NBO					●	●			○	●	●					●	●		12,70	4,76	0,80	5,50	1,00	0,50	1,50	0,20	0,10	0,30
	CCMT 060202-NFM											●						●		6,35	2,38	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,11
	CCMT 060204-NFM								△	●	●	●					●	●		6,35	2,38	0,40	2,80	0,30	0,10	1,70	0,08	0,05	0,17
	CCMT 09T302-NFM											●						●		9,53	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,13
	CCMT 09T304-NFM								△	●	●	●					●	●		9,53	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
	CCMT 09T308-NFM								△	●	●	●					●	●		9,53	3,97	0,80	4,40	0,35	0,15	2,00	0,20	0,08	0,45
	CCMT 120404-NFM								△	●	●	●						●		12,70	4,76	0,40	5,50	0,42	0,14	2,40	0,14	0,07	0,27
	CCMT 060202-NFK													●	○					6,35	2,38	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,11
	CCMT 060204-NFK													●	○					6,35	2,38	0,40	2,80	0,30	0,10	1,70	0,08	0,05	0,17
	CCMT 09T302-NFK													●	○					9,53	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,13
	CCMT 09T304-NFK													●	○					9,53	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
	CCMT 120404-NFK													●	○					12,70	4,76	0,40	5,50	0,42	0,14	2,40	0,14	0,07	0,27

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request



MAKE YOUR CHOICE		P					M					K		N	S	Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	CCMT 060204-NFW	△	●				●							●	●			●		6,35	2,38	0,40	2,80	0,80	0,30	2,00	0,12	0,05	0,30
	CCMT 060208-NFW	△	●				●							●	●			●		6,35	2,38	0,80	2,80	0,80	0,30	2,00	0,15	0,09	0,35
	CCMT 09T304-NFW	△	●				●							●	●			●		9,53	3,97	0,40	4,40	1,00	0,30	3,00	0,20	0,07	0,30
	CCMT 09T308-NFW	△	●				●							●	●			●		9,53	3,97	0,80	4,40	1,00	0,30	3,00	0,25	0,12	0,50
	CCMT 060204-NLM											●	●					●	●	6,35	2,38	0,40	2,80	0,50	0,20	2,00	0,10	0,08	0,20
	CCMT 09T304-NLM											●	●					●	●	9,53	3,97	0,40	4,40	0,50	0,25	2,50	0,15	0,10	0,30
	CCMT 120404-NLM											●	●					●	●	12,70	4,76	0,40	5,50	0,80	0,30	3,00	0,18	0,12	0,35
	CCMT 060204-NMP	△	●	△	●		●													6,35	2,38	0,40	2,80	0,64	0,20	2,40	0,11	0,06	0,17
	CCMT 060208-NMP	△	●	△	●															6,35	2,38	0,80	2,80	0,64	0,40	2,40	0,18	0,08	0,35
	CCMT 09T304-NMP	△	●	△	●		●													9,53	3,97	0,40	4,40	0,64	0,25	3,00	0,15	0,08	0,23
	CCMT 09T308-NMP	△	●	●	●		●													9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,20	0,10	0,40
	CCMT 120404-NMP	△	●	△	●															12,70	4,76	0,40	5,50	0,96	0,30	3,60	0,18	0,09	0,27
	CCMT 120408-NMP	△	●	△	●		●													12,70	4,76	0,80	5,50	0,96	0,60	3,60	0,24	0,12	0,45
	CCMT 120412-NMP	△	●	△	●	●														12,70	4,76	1,20	5,50	0,96	0,72	3,60	0,35	0,14	0,60
	CCMT 060204-NMM						△	●				●	●					●	●	6,35	2,38	0,40	2,80	0,64	0,20	2,40	0,11	0,06	0,17
	CCMT 060208-NMM						△	●				●						●		6,35	2,38	0,80	2,80	0,64	0,40	2,40	0,18	0,08	0,35
	CCMT 09T304-NMM						△	●				●	●					●	●	9,53	3,97	0,40	4,40	0,64	0,25	3,00	0,15	0,08	0,23
	CCMT 09T308-NMM						△	●				●	●					●	●	9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,20	0,10	0,40
	CCMT 120404-NMM						△	●				●						●		12,70	4,76	0,40	5,50	0,96	0,30	3,60	0,18	0,09	0,27
	CCMT 120408-NMM						△	●				●	●					●	●	12,70	4,76	0,80	5,50	0,96	0,60	3,60	0,24	0,12	0,45
	CCMT 120412-NMM						△	●				●	●					●		12,70	4,76	1,20	5,50	0,96	0,72	3,60	0,35	0,14	0,60
	CCMT 060204-NMK													●	●					6,35	2,38	0,40	2,80	0,64	0,20	2,40	0,11	0,06	0,17
	CCMT 060208-NMK													●	●					6,35	2,38	0,80	2,80	0,64	0,40	2,40	0,18	0,08	0,35
	CCMT 09T304-NMK													●	●					9,53	3,97	0,40	4,40	0,64	0,25	3,00	0,15	0,08	0,23
	CCMT 09T308-NMK													●	●					9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,20	0,10	0,40
	CCMT 120404-NMK													●	●					12,70	4,76	0,40	5,50	0,96	0,30	3,60	0,18	0,09	0,27
	CCMT 120408-NMK													●	●					12,70	4,76	0,80	5,50	0,96	0,60	3,60	0,24	0,12	0,45
	CCMT 060208-NMW	△	●				●	△				●		●				●		6,35	2,38	0,80	2,80	1,20	0,50	2,50	0,20	0,10	0,40
	CCMT 09T304-NMW	△	●				●	△				●		●				●		9,53	3,97	0,40	4,40	1,50	0,50	4,00	0,25	0,12	0,40
	CCMT 09T308-NMW	△	●				●	△				●		●				●		9,53	3,97	0,80	4,40	1,50	0,70	4,00	0,30	0,15	0,50
	CCMT 120404-NMW	△	●				●	△				●		●				●		12,70	4,76	0,40	5,50	2,00	0,50	4,00	0,25	0,15	0,40
	CCMT 120408-NMW	△	●				●	△				●		●				●		12,70	4,76	0,80	5,50	2,00	0,70	4,00	0,30	0,15	0,50

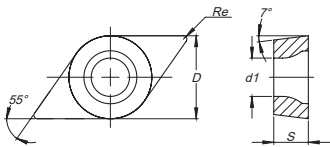
C - RHOMBIC 80°
positive inserts - relief angle 7°

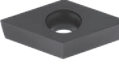
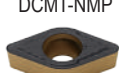


MAKE YOUR CHOICE		P						M				K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	CCGT 060201-NFS					●	●					●	●					●	●	6,35	2,38	0,10	2,80	0,30	0,10	1,00	0,03	0,01	0,06
	CCGT 060202-NFS					●	●					●	●					●	●	6,35	2,38	0,20	2,80	0,50	0,10	1,50	0,07	0,02	0,12
	CCGT 060204-NFS					●	●					●	●					●	●	6,35	2,38	0,40	2,80	0,80	0,15	1,50	0,20	0,08	0,25
	CCGT 09T301-NFS					●	●					●	●					●	●	9,53	3,97	0,10	4,40	0,50	0,10	1,50	0,03	0,01	0,06
	CCGT 09T302-NFS					●	●					●	●					●	●	9,53	3,97	0,20	4,40	1,00	0,10	2,00	0,07	0,02	0,12
	CCGT 09T304-NFS					●	●						●	●					●	●	9,53	3,97	0,40	4,40	1,25	0,15	2,50	0,15	0,08
	CCGT 060202-NLN											●		●	●		●	●		6,35	2,38	0,20	2,80	1,00	0,05	3,00	0,07	0,05	0,12
	CCGT 060204-NLN											●		●	●		●	●		6,35	2,38	0,40	2,80	1,55	0,10	3,00	0,15	0,10	0,20
	CCGT 09T302-NLN											○		●			●	○		9,53	3,97	0,20	4,40	1,53	0,05	3,00	0,07	0,05	0,12
	CCGT 09T304-NLN											●		●	●		●	●		9,53	3,97	0,40	4,40	2,55	0,10	5,00	0,16	0,10	0,22
	CCGT 09T308-NLN											○		●			●	○		9,53	3,97	0,80	4,40	2,55	0,10	5,00	0,22	0,15	0,45
	CCGT 120402-NLN											○		●			●	○		12,70	4,76	0,20	5,50	2,03	0,05	4,00	0,07	0,05	0,12
	CCGT 120404-NLN											○		●			●	○		12,70	4,76	0,40	5,50	2,55	0,10	5,00	0,17	0,10	0,26
	CCGT 120408-NLN											○		●			●	○		12,70	4,76	0,80	5,50	2,80	0,10	5,50	0,25	0,15	0,50

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

D - RHOMBIC 55°
positive inserts - relief angle 7°

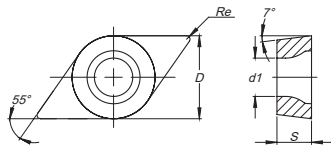


MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	DCMW 070202														●					6,35	2,38	0,20	2,80	1,60	0,05	3,20	0,10	0,04	0,13
	DCMW 070204														●					6,35	2,38	0,40	2,80	1,60	0,05	3,20	0,20	0,08	0,26
	DCMW 070208														●					6,35	2,38	0,80	2,80	1,60	0,05	3,20	0,40	0,16	0,53
	DCMW 11T302														●					9,53	3,97	0,20	4,40	2,40	0,05	4,80	0,10	0,04	0,13
	DCMW 11T304														●					9,53	3,97	0,40	4,40	2,40	0,05	4,80	0,20	0,08	0,26
	DCMW 11T308														●					9,53	3,97	0,80	4,40	2,40	0,05	4,80	0,40	0,16	0,53
	DCMW 150404														●					12,70	4,76	0,40	5,50	2,80	0,10	5,50	0,20	0,10	0,26
	DCMW 150408														●					12,70	4,76	0,80	5,50	2,80	0,10	5,50	0,40	0,16	0,53
	DCMT 070202-NFP			△	●															6,35	2,38	0,20	2,80	0,26	0,06	1,50	0,06	0,03	0,11
	DCMT 070204-NFP	△	●	△	●															6,35	2,38	0,40	2,80	0,26	0,08	1,50	0,08	0,05	0,17
	DCMT 11T302-NFP	△		△	●	●														9,53	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,15
	DCMT 11T304-NFP	△	●	△	●															9,53	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
	DCMT 11T308-NFP	△	●	△	●															9,53	3,97	0,80	4,40	0,35	0,15	2,00	0,15	0,08	0,30
	DCMT 070202-NFM												●					●		6,35	2,38	0,20	2,80	0,26	0,06	1,50	0,06	0,03	0,11
	DCMT 070204-NFM								△	●		●						●		6,35	2,38	0,40	2,80	0,26	0,08	1,50	0,08	0,05	0,17
	DCMT 11T302-NFM											●	●					●	●	9,53	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,15
	DCMT 11T304-NFM								△	●	●	●						●	●	9,53	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
	DCMT 11T308-NFM								△	●	●	●						●	●	9,53	3,97	0,80	4,40	0,35	0,15	2,00	0,15	0,08	0,30
	DCMT 070202-NFK													●						6,35	2,38	0,20	2,80	0,26	0,06	1,50	0,06	0,03	0,11
	DCMT 070204-NFK													●						6,35	2,38	0,40	2,80	0,26	0,08	1,50	0,08	0,05	0,17
	DCMT 11T302-NFK													●						9,53	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,15
	DCMT 11T304-NFK													●						9,53	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
	DCMT 070204-NFW	△	●											●	●			●		6,35	2,38	0,40	2,80	0,70	0,30	2,00	0,12	0,05	0,25
	DCMT 070208-NFW	△	●											●	●			●		6,35	2,38	0,80	2,80	0,70	0,30	2,00	0,15	0,09	0,35
	DCMT 11T304-NFW	△	●											●	●			●		9,53	3,97	0,40	4,40	1,00	0,30	3,00	0,20	0,07	0,30
	DCMT 11T308-NFW	△	●											●	●			●		9,53	3,97	0,80	4,40	1,00	0,30	3,00	0,25	0,12	0,40
	DCMT 11T304-NLM											●	●					●	●	9,53	3,97	0,40	4,40	0,50	0,15	2,50	0,15	0,08	0,25
	DCMT 11T308-NLM											●	●					●	●	9,53	3,97	0,80	4,40	0,50	0,20	2,50	0,20	0,10	0,35
	DCMT 070204-NMP	△	●	△	●	●														6,35	2,38	0,40	2,80	0,60	0,19	2,25	0,11	0,06	0,17
	DCMT 070208-NMP	△	●	△	●															6,35	2,38	0,80	2,80	0,60	0,38	2,25	0,20	0,08	0,35
	DCMT 11T304-NMP	△	●	△	●	●														9,53	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
	DCMT 11T308-NMP	△	●	△	●	●														9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
	DCMT 11T312-NMP	△	●	△	●	●														9,53	3,97	1,20	4,40	0,80	0,60	3,00	0,35	0,12	0,60

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

D - RHOMBIC 55°

positive inserts - relief angle 7°

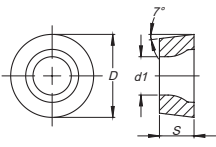


MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	DCMT 070204-NMM							△	●			●	●					●	●	6,35	2,38	0,40	2,80	0,60	0,19	2,25	0,11	0,06	0,17
	DCMT 070208-NMM							△	●				●						●	6,35	2,38	0,80	2,80	0,60	0,38	2,25	0,20	0,08	0,35
	DCMT 11T304-NMM							△	●			●	●					●	●	9,53	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
	DCMT 11T308-NMM							△	●			●	●					●	●	9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
	DCMT 11T312-NMM							△	●			●	●						●	9,53	3,97	1,20	4,40	0,80	0,60	3,00	0,35	0,12	0,60
	DCMT 070204-NMK													●	●					6,35	2,38	0,40	2,80	0,60	0,19	2,25	0,11	0,06	0,17
	DCMT 070208-NMK													●	●					6,35	2,38	0,80	2,80	0,60	0,38	2,25	0,20	0,08	0,35
	DCMT 11T304-NMK													●	●					9,53	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
	DCMT 11T308-NMK													●	●					9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
	DCMT 11T312-NMK													●	●					9,53	3,97	1,20	4,40	0,80	0,50	3,00	0,35	0,12	0,60
	DCMT 11T304-NMW △	●						△					●	○	●				●	9,53	3,97	0,40	4,40	1,50	0,50	4,00	0,25	0,12	0,40
	DCMT 11T308-NMW △	●						△					●		●				●	9,53	3,97	0,80	4,40	1,50	0,50	4,00	0,30	0,15	0,50
	DCGT 070201-NFS					●	●						●	●				●	●	6,35	2,38	0,10	2,80	0,30	0,10	1,00	0,03	0,01	0,06
	DCGT 070202-NFS					●	●					●	●					●	●	6,35	2,38	0,20	2,80	0,50	0,10	1,50	0,07	0,02	0,12
	DCGT 070204-NFS					●	●					●	●					●	●	6,35	2,38	0,40	2,80	0,80	0,15	1,50	0,15	0,08	0,25
	DCGT 11T301-NFS					●	●					●	●					●	●	9,53	3,97	0,10	4,40	0,50	0,10	1,50	0,03	0,01	0,06
	DCGT 11T302-NFS					●	●					●	●					●	●	9,53	3,97	0,20	4,40	1,00	0,10	2,00	0,07	0,02	0,12
	DCGT 11T304-NFS					●	●					●	●					●	●	9,53	3,97	0,40	4,40	1,50	0,15	3,00	0,15	0,08	0,25
	DCGT 11T308-NFS					●	●					●	●					●	●	9,53	3,97	0,80	4,40	2,00	0,20	3,50	0,18	0,10	0,30
	DCGT 070202-NLN											○					●	○	6,35	2,38	0,20	2,80	1,00	0,05	3,00	0,07	0,05	0,12	
	DCGT 070204-NLN											○					●	○	6,35	2,38	0,40	2,80	2,05	0,10	4,00	0,15	0,10	0,20	
	DCGT 11T302-NLN											●					●	●	9,53	3,97	0,20	4,40	2,03	0,05	4,00	0,07	0,05	0,12	
	DCGT 11T304-NLN											●					●	●	9,53	3,97	0,40	4,40	2,55	0,10	5,00	0,16	0,10	0,22	
	DCGT 11T308-NLN											○					●	○	9,53	3,97	0,80	4,40	2,55	0,10	5,00	0,22	0,15	0,50	
	DCGT 11T312-NLN												○				●	○	9,53	3,97	1,20	4,40	2,70	0,15	5,00	0,35	0,15	0,70	

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

R - ROUND R°

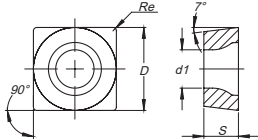
positive inserts - relief angle 7°



MAKE YOUR CHOICE		P						M					K		N	S	Dimensions (mm)				Cutting Conditions								
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	RCMT 0602M0-NCP	△	●	△	●			△		△				●						6,00	2,38	-	2,80	1,50	0,50	2,40	0,15	0,04	0,17
	RCMT 0803M0-NST	△	●	△	●			△		△				●						8,00	3,18	-	3,40	2,00	0,80	3,20	0,20	0,10	0,80
	RCMT 1003M0-NST	△	●	△	●			△		△				●						10,00	3,18	-	3,40	2,50	1,00	4,00	0,25	0,12	1,00
	RCMT 10T3M0-NST	△	●	△	●			△		△				●						10,00	3,97	-	4,40	2,50	1,00	4,00	0,25	0,16	1,40
	RCMT 1204M0-NST	△	●	△	●			△		△				●						12,00	4,76	-	4,40	3,00	1,20	4,80	0,30	0,20	1,80
	RCMT 1606M0-NST	△	●	△	●			△		△				●						16,00	6,35	-	5,50	3,50	1,60	6,40	0,37	0,25	2,30
	RCMT 2006M0-NST	△	●	△	●			△		△				●	●					20,00	6,35	-	6,50	4,00	2,00	8,00	0,45	0,30	3,00
	RCMT 2507M0-NRF		●			●														25,00	7,94	-	7,20	6,30	2,50	10,00	0,79	0,25	2,50
	RCMT 2006M0-NRM		●			●														20,00	6,35	-	6,50	4,00	2,00	8,00	0,45	0,13	0,63
	RCMX 1003M0-NST	△		△	●	△														10,00	3,18	-	3,60	2,50	1,00	4,00	0,32	0,10	1,00
	RCMX 1204M0-NST			△	●															12,00	4,76	-	4,20	3,00	1,20	4,80	0,38	0,12	1,20
	RCMX 1606M0-NST			△	●															16,00	6,35	-	5,20	4,00	1,60	6,40	0,51	0,16	1,60
	RCMX 2006M0-NST		●	△	●									●						20,00	6,35	-	6,50	5,00	2,00	8,00	0,63	0,20	2,00
	RCMX 2507M0-NST	●	○	△	●															25,00	7,94	-	7,20	6,30	2,50	10,00	0,79	0,25	2,50
	RCMX 3009M0-NST		●		●															30,00	9,55	-	10,00	7,00	3,00	11,00	0,85	0,30	2,80
	RCMX 3209M0-NST	●		△	●															32,00	9,52	-	9,50	8,00	3,20	12,80	1,01	0,32	3,20
	RCMX 3209M0-NRM	△	●	△	●			△		△				●	△					32,00	9,52	-	9,50	6,50	3,20	13,00	1,80	0,80	2,50
	RCMX 2507M0-NRR	△	●	△	●			△		△										25,00	7,94	-	7,20	5,00	3,20	8,00	1,80	0,80	2,50
	RCMX 3209M0-NRR	△	●	△	●		●	△		△										32,00	9,52	-	9,50	6,50	3,20	13,00	1,80	0,80	2,50
	RCGT 0602M0-NLN																●			6,00	2,38	-	2,80	1,25	0,50	2,00	0,13	0,05	0,20
	RCGT 0803M0-NLN																●			8,00	3,18	-	3,40	1,50	0,50	2,50	0,15	0,05	0,25
	RCGT 1003M0-NLN																●			10,00	3,18	-	4,40	2,00	1,00	3,00	0,20	0,10	0,30
	RCGT 1204M0-NLN																●			12,00	4,76	-	4,40	2,25	1,00	3,50	0,23	0,10	0,35

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

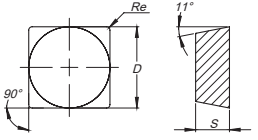
S - SQUARE 90°
positive inserts - relief angle 7°



MAKE YOUR CHOICE		P					M				K				N	S	Dimensions (mm)				Cutting Conditions								
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9720	NX7005	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	SCMW 09T304													●						9,53	3,97	0,40	4,40	2,40	0,05	4,70	0,20	0,08	0,26
	SCMW 09T308													●						9,53	3,97	0,80	4,40	2,40	0,05	4,70	0,40	0,16	0,53
	SCMW 120404													○						12,70	4,76	0,40	5,50	3,20	0,05	6,30	0,20	0,08	0,26
	SCMW 120408													●						12,70	4,76	0,80	5,50	3,20	0,05	6,30	0,40	0,16	0,53
	SCMW 120412													○						12,70	4,76	1,20	5,50	3,20	0,05	6,30	0,60	0,24	0,80
	SCMT 09T304-NFP	△	●	△	●															9,53	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
	SCMT 09T308-NFP	△	●	△	●	●														9,53	3,97	0,80	4,40	0,35	0,15	2,00	0,15	0,08	0,30
	SCMT 09T304-NFM								△	●	●							●		9,53	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
	SCMT 09T308-NFM								△	●	●							●		9,53	3,97	0,80	4,40	0,35	0,15	2,00	0,15	0,08	0,30
	SCMT 09T304-NFK													●						9,53	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
	SCMT 09T308-NFK													●						9,53	3,97	0,80	4,40	0,35	0,15	2,00	0,15	0,08	0,30
	SCMT 09T304-NMP	△	●	△	●	●														9,53	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
	SCMT 09T308-NMP	△	●	△	●	●														9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
	SCMT 120404-NMP	△	●	△	●															12,70	4,76	0,40	5,50	0,96	0,30	3,60	0,18	0,09	0,27
	SCMT 120408-NMP	△	●	△	●															12,70	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45
	SCMT 120412-NMP	△	●	△	●	●														12,70	4,76	1,20	5,50	0,96	0,72	3,60	0,35	0,14	0,60
	SCMT 09T304-NMM							△	●		●							●		9,53	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
	SCMT 09T308-NMM							△	●		●							●		9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
	SCMT 120404-NMM							△	●		●							●		12,70	4,76	0,40	5,50	0,96	0,30	3,60	0,18	0,09	0,27
	SCMT 120408-NMM							△	●		●							●		12,70	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45
	SCMT 120412-NMM							△	●		●							●		12,70	4,76	1,20	5,50	0,96	0,72	3,60	0,35	0,14	0,60
	SCMT 09T304-NMK												●	●	●					9,53	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
	SCMT 09T308-NMK													●	●					9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
	SCMT 120408-NMK													●	●	●				12,70	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45
	SCGT 09T304-NLN																●			9,53	3,97	0,40	4,40	2,05	0,10	4,00	0,16	0,10	0,26
	SCGT 09T308-NLN																●			9,53	3,97	0,80	4,40	2,55	0,10	5,00	0,22	0,15	0,40
	SCGT 120404-NLN																●			12,70	4,76	0,40	5,50	2,55	0,10	5,00	0,20	0,10	0,26
	SCGT 120408-NLN																●			12,70	4,76	0,80	5,50	2,55	0,10	5,00	0,30	0,15	0,50

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

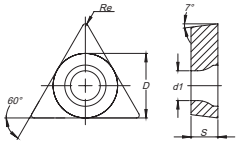
S - SQUARE 90°
positive inserts - relief angle 11°



MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
SPUN 	SPUN 090304			○																9,53	3,18	0,40	-	2,00	1,00	3,00	0,15	0,08	0,20
	SPUN 090308			○																9,53	3,18	0,80	-	2,00	1,00	3,00	0,22	0,13	0,35
	SPUN 120304			●																12,70	3,18	0,40	-	3,00	1,00	5,00	0,20	0,10	0,30
	SPUN 120308			●																12,70	3,18	0,80	-	3,00	1,00	5,00	0,25	0,15	0,40
	SPUN 120312			●																12,70	3,18	1,20	-	3,00	1,00	5,00	0,35	0,20	0,50
	SPUN 120316			○																12,70	3,18	1,60	-	3,00	1,00	5,00	0,45	0,25	0,80
	SPUN 120408			○																12,70	4,76	0,80	-	3,00	1,00	5,00	0,25	0,15	0,40
	SPUN 120412			○																12,70	4,76	1,20	-	3,00	1,00	5,00	0,35	0,20	0,50
	SPUN 120416			○																12,70	4,76	1,60	-	3,00	1,00	5,00	0,45	0,25	0,80
	SPUN 150412			○																15,88	4,76	1,20	-	3,00	1,00	5,00	0,35	0,20	0,50
	SPUN 190408			○																19,05	4,76	0,80	-	4,00	1,50	7,00	0,25	0,15	0,40
	SPUN 190412			○																19,05	4,76	1,20	-	4,00	1,50	7,00	0,35	0,20	0,50
	SPUN 190416			○																19,05	4,76	1,60	-	4,50	2,00	7,00	0,45	0,25	0,80
	SPUN 250620			○																25,40	6,35	2,00	-	6,00	3,00	10,00	0,55	0,30	1,00
	SPMR-N12 	SPMR 090308-N12	●	●																	9,53	3,18	0,80	-	1,00	0,30	2,00	0,20	0,10
SPMR 120304-N12		●	●																	12,70	3,18	0,40	-	1,30	0,50	2,00	0,15	0,08	0,25
SPMR 120308-N12		●	●																	12,70	3,18	0,80	-	1,30	0,50	2,00	0,22	0,10	0,30
SPMR-N13 	SPMR 090304-N13	●	●																	9,53	3,18	0,40	-	2,20	1,00	3,50	0,10	0,05	0,20
	SPMR 090308-N13	●	●																	9,53	3,18	0,80	-	2,20	1,00	3,50	0,25	0,10	0,40
	SPMR 120304-N13	●	●																	12,70	3,18	0,40	-	2,60	1,50	4,00	0,10	0,07	0,20
	SPMR 120308-N13	●	●																	12,70	3,18	0,80	-	2,60	1,50	4,00	0,30	0,20	0,40
	SPMR 120312-N13	●	●																	12,70	3,18	1,20	-	2,60	1,50	4,00	0,40	0,25	0,55

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

positive inserts - relief angle 7°

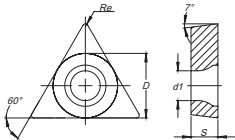


● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

T - TRIANGULAR 60°

positive inserts - relief angle 7°



MAKE YOUR CHOICE		P					M					K			S		Dimensions (mm)				Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7005	NX7505	NX3520	NX7540	NX9710 NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	TCMT 090204-NMM							△	●			●	●					●	5,56	2,38	0,40	2,50	0,60	0,19	2,25	0,11	0,06	0,17
	TCMT 090208-NMM							△	●				●					●	5,56	2,38	0,80	2,50	0,60	0,38	2,25	0,15	0,08	0,23
	TCMT 110204-NMM							△	●			●	●					●	6,35	2,38	0,40	2,80	0,67	0,21	2,50	0,13	0,06	0,19
	TCMT 110208-NMM							△	●			●	●					●	6,35	2,38	0,80	2,80	0,67	0,42	2,50	0,17	0,09	0,26
	TCMT 110304-NMM							△	●			●	●					●	6,35	3,18	0,40	2,80	0,67	0,21	2,50	0,13	0,06	0,19
	TCMT 110308-NMM							△	●			●	●					●	6,35	3,18	0,80	2,80	0,67	0,42	2,50	0,20	0,09	0,40
	TCMT 16T304-NMM							△	●				●					●	9,53	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
	TCMT 16T308-NMM							△	●			●	●				●	●	9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,22	0,10	0,45
	TCMT 16T312-NMM							△	●			●	●					●	9,53	3,97	1,20	4,40	0,80	0,60	3,00	0,35	0,12	0,60
	TCMT 220408-NMM							△	●				●					●	12,70	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45
	TCMT 090204-NMK													●	●				5,56	2,38	0,40	2,50	0,60	0,19	2,25	0,11	0,06	0,17
	TCMT 090208-NMK												●	●	●				5,56	2,38	0,80	2,50	0,60	0,38	2,25	0,15	0,08	0,23
	TCMT 110204-NMK													●	●				6,35	2,38	0,40	2,80	0,67	0,21	2,50	0,13	0,06	0,19
	TCMT 110208-NMK													●	●				6,35	2,38	0,80	2,80	0,67	0,42	2,50	0,17	0,09	0,26
	TCMT 110304-NMK													●	●				6,35	3,18	0,40	2,80	0,67	0,21	2,50	0,13	0,06	0,19
	TCMT 110308-NMK													●	●				6,35	3,18	0,80	2,80	0,67	0,42	2,50	0,20	0,09	0,40
	TCMT 16T304-NMK													●	●				9,53	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
	TCMT 16T308-NMK													●	●				9,53	3,97	0,80	4,40	0,80	0,50	3,00	0,22	0,10	0,45
	TCMT 16T312-NMK													●	●				9,53	3,97	1,20	4,40	0,80	0,60	3,00	0,35	0,12	0,60
	TCMT 220408-NMK													●	●				12,70	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45
	TCMT 110208-NMW	△	●					△					●			●		●	6,35	2,38	0,80	2,80	1,20	0,50	3,00	0,30	0,15	0,50
	TCMT 110308-NMW	△	●					△					●		△	●		●	6,35	3,18	0,80	2,80	1,20	0,50	3,00	0,30	0,15	0,50
	TCMT 16T308-NMW	△	●					△					●			●		●	9,53	3,97	0,80	4,40	1,50	0,50	4,00	0,30	0,15	0,50
	TCGT 090202-NFS					●	●						●					●	5,56	2,38	0,20	2,50	0,50	0,10	1,50	0,07	0,02	0,12
	TCGT 090204-NFS					●	●						●					●	5,56	2,38	0,40	2,50	1,00	0,50	2,00	0,15	0,08	0,25
	TCGT 110201-NFS					●	●						●					●	6,35	2,38	0,10	2,80	0,30	0,10	1,00	0,03	0,01	0,08
	TCGT 110202-NFS					●	●						●					●	6,35	2,38	0,20	2,80	0,50	0,10	1,50	0,07	0,02	0,12
	TCGT 110204-NFS					●	●						●					●	6,35	2,38	0,40	2,80	1,30	0,30	2,50	0,15	0,08	0,25
	TCGT 110301-NFS					●	●						●					●	9,53	3,18	0,10	2,80	0,30	0,10	1,00	0,03	0,01	0,08
	TCGT 110302-NFS					●	●						●					●	9,53	3,18	0,20	2,80	0,50	0,10	1,50	0,07	0,02	0,12
	TCGT 110304-NFS					●	●						●					●	9,53	3,18	0,40	2,80	1,30	0,50	2,50	0,15	0,08	0,25

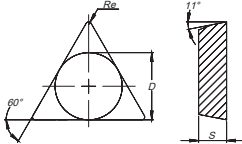
● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
TCGT-LN	TCGT 090202-NLN											○					●	○		5,56	2,38	0,20	2,50	1,00	0,05	2,50	0,10	0,07	0,15
	TCGT 090204-NLN											○					●	○		5,56	2,38	0,40	2,50	1,00	0,05	2,50	0,15	0,10	0,20
	TCGT 110202-NLN											○					●	○		6,35	2,38	0,20	2,80	2,03	0,05	4,00	0,12	0,07	0,15
	TCGT 110204-NLN											●					●	●		6,35	2,38	0,40	2,80	2,05	0,10	4,00	0,15	0,10	0,20
	TCGT 110208-NLN											○					●	○		6,35	2,38	0,80	2,80	2,05	0,10	4,00	0,25	0,15	0,50
	TCGT 16T302-NLN												○				●	○		9,53	3,97	0,20	4,40	2,53	0,05	5,00	0,10	0,07	0,15
	TCGT 16T304-NLN											●					●	●		9,53	3,97	0,40	4,40	2,80	0,10	5,50	0,15	0,10	0,20
	TCGT 16T308-NLN												○				●	○		9,53	3,97	0,80	4,40	2,80	0,10	5,50	0,25	0,15	0,50
	TCGT 16T312-NLN												○				●	○		9,53	3,97	1,20	4,40	3,00	0,15	5,50	0,45	0,15	0,70
	TCGT 16T316-NLN												○				●	○		9,53	3,97	1,60	4,40	3,00	0,15	5,50	0,65	0,20	0,90

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

T - TRIANGULAR 60°

positive inserts - relief angle 11°

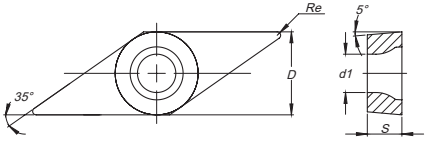


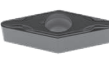
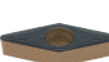
MAKE YOUR CHOICE		P								M			K			N	S	Dimensions (mm)				Cutting Conditions								
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max	
TPUN 	TPUN 110208			○																6,35	2,38	0,80	-	2,00	1,00	3,00	0,30	0,15	0,40	
	TPUN 110304			○																	6,35	3,18	0,40	-	2,00	1,00	3,00	0,15	0,10	0,30
	TPUN 110308			○																	6,35	3,18	0,80	-	2,00	1,00	3,00	0,30	0,15	0,40
	TPUN 110312			○																	6,35	3,18	1,20	-	2,00	1,00	3,00	0,35	0,20	0,50
	TPUN 160304			●		●			●												9,53	3,18	0,40	-	3,50	1,00	5,00	0,15	0,10	0,30
	TPUN 160308			●		●			●												9,53	3,18	0,80	-	3,50	1,00	5,00	0,30	0,15	0,40
	TPUN 160312			●		●															9,53	3,18	1,20	-	3,50	1,50	5,00	0,35	0,20	0,50
	TPUN 160326			○																	9,53	3,18	2,60	-	3,50	1,50	5,00	0,80	0,25	1,40
	TPUN 160408			○																	9,53	4,76	0,80	-	3,50	1,00	5,00	0,30	0,15	0,40
	TPUN 220404			●		●															12,70	4,76	0,40	-	4,50	1,50	7,00	0,15	0,10	0,30
	TPUN 220408			●		●															12,70	4,76	0,80	-	4,50	1,50	7,00	0,30	0,15	0,40
	TPUN 220412			●		●															12,70	4,76	1,20	-	4,50	1,50	7,00	0,35	0,20	0,50
	TPUN 220416			○																	12,70	4,76	1,60	-	4,50	1,50	7,00	0,50	0,25	0,70
	TPUN 270616					○															15,88	6,35	1,60	-	5,50	2,00	8,00	0,50	0,25	0,70
	TPUN 270620					○															15,88	6,35	2,00	-	5,50	2,00	8,00	0,60	0,30	1,00
	TPUN 330620			○		○															19,05	6,35	2,00	-	6,50	3,00	10,00	0,60	0,30	1,00
TPMR-N12 	TPMR 090204-N12	○		○																5,56	2,38	0,40	-	0,60	0,10	1,00	0,10	0,05	0,15	
	TPMR 110304-N12	●		●																6,35	3,18	0,40	-	0,90	0,30	1,50	0,10	0,05	0,20	
	TPMR 110308-N12	●		●																6,35	3,18	0,80	-	0,90	0,30	1,50	0,20	0,05	0,35	
	TPMR 160304-N12	●		●																9,53	3,18	0,40	-	1,30	0,50	2,00	0,12	0,08	0,20	
	TPMR 160308-N12	●		●																9,53	3,18	0,80	-	1,50	0,50	3,00	0,22	0,08	0,35	
	TPMR 160312-N12	○		○																	9,53	3,18	1,20	-	1,50	0,50	3,00	0,35	0,08	0,55
TPMR-N13 	TPMR 090204-N13	●		●																5,56	2,38	0,40	-	1,00	0,20	1,50	0,10	0,08	0,20	
	TPMR 110304-N13	●		●																6,35	3,18	0,40	-	2,00	1,00	3,00	0,12	0,10	0,20	
	TPMR 110308-N13	●		●																6,35	3,18	0,80	-	2,00	1,00	3,00	0,25	0,13	0,40	
	TPMR 160304-N13	●		●																9,53	3,18	0,40	-	3,00	1,00	5,00	0,15	0,10	0,20	
	TPMR 160308-N13	●		●																9,53	3,18	0,80	-	3,00	1,00	5,00	0,30	0,13	0,40	
	TPMR 160312-N13	●		●																9,53	3,18	1,20	-	3,00	1,00	5,00	0,40	0,15	0,55	
	TPMR 220408-N13	●		●																12,70	4,76	0,80	-	5,00	1,50	7,00	0,30	0,15	0,40	

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

V - RHOMBIC 35°

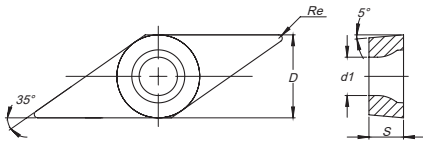
positive inserts - relief angle 5°



MAKE YOUR CHOICE		P					M					K		N	S	Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	VBMW 110202													○						6,35	2,38	0,20	2,80	1,00	0,05	2,80	0,10	0,05	0,13
	VBMW 110302													○						6,35	3,18	0,20	2,80	1,50	0,05	3,10	0,10	0,05	0,13
	VBMW 110304													○						6,35	3,18	0,40	2,80	1,50	0,05	3,10	0,20	0,10	0,26
	VBMW 160402													○						9,53	4,76	0,20	4,40	2,00	0,05	3,70	0,10	0,05	0,13
	VBMW 160404													●						9,53	4,76	0,40	4,40	2,30	0,05	4,70	0,20	0,10	0,26
	VBMW 160408													●						9,53	4,76	0,80	4,40	2,30	0,05	4,70	0,40	0,16	0,53
	VBMT 110302-NFP			△	●															6,35	3,18	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
	VBMT 110304-NFP	△	●	△	●															6,35	3,18	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
	VBMT 110308-NFP	△	●	△	●															6,35	3,18	0,80	2,80	0,30	0,13	1,70	0,13	0,07	0,26
	VBMT 110312-NFP	△	●	△	●															6,35	3,18	1,20	2,80	0,30	0,13	1,70	0,15	0,08	0,31
	VBMT 160402-NFP			△	●															9,53	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
	VBMT 160404-NFP	△	●	△	●															9,53	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
	VBMT 160408-NFP	△	●	△	●															9,53	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
	VBMT 160412-NFP	△	●	△	●	●														9,53	4,76	1,20	4,40	0,32	0,14	1,80	0,16	0,09	0,32
	VBMT 110302-NFM								△	●		●						●		6,35	3,18	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
	VBMT 110304-NFM								△	●		●						●		6,35	3,18	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
	VBMT 110308-NFM								△	●	△	●						●		6,35	3,18	0,80	2,80	0,30	0,13	1,70	0,13	0,07	0,26
	VBMT 160402-NFM								△	●		●						●		9,53	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
	VBMT 160404-NFM								△	●		●						●		9,53	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
	VBMT 160408-NFM								△	●	●	●						●		9,53	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
	VBMT 160412-NFM								△	●	●	●						●		9,53	4,76	1,20	4,40	0,32	0,14	1,80	0,16	0,09	0,32
	VBMT 110302-NFK													●						6,35	3,18	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
	VBMT 110304-NFK													●						6,35	3,18	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
	VBMT 110308-NFK													●						6,35	3,18	0,80	2,80	0,30	0,13	1,70	0,13	0,07	0,26
	VBMT 160402-NFK													●						9,53	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
	VBMT 160404-NFK													●						9,53	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
	VBMT 160408-NFK													●						9,53	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
	VBMT 160404-NMP	△	●	△	●	●	●													9,53	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
	VBMT 160408-NMP	△	●	△	●	●	●													9,53	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
	VBMT 160412-NMP	△	●	△	●															9,53	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32
	VBMT 160404-NMM							●				●	●				●	●		9,53	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
	VBMT 160408-NMM							●				●	●				●	●		9,53	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
	VBMT 160412-NMM							●				●						●		9,53	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32

V - RHOMBIC 35°

positive inserts - relief angle 5°

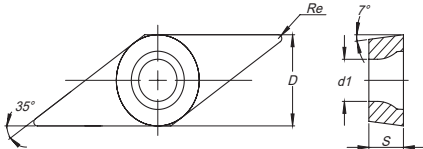


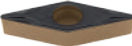
MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	VBMT 160404-NMK													●	●					9,53	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
	VBMT 160408-NMK													●	●					9,53	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
	VBMT 160412-NMK													●	●					9,53	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

V - RHOMBIC 35°

positive inserts - relief angle 7°

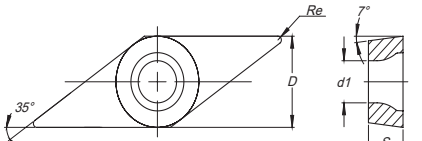


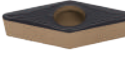
MAKE YOUR CHOICE		P					M					K	N	S	Dimensions (mm)				Cutting Conditions										
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	VCMW 110302													○	○					6,35	3,18	0,20	2,80	1,50	0,05	3,10	0,10	0,04	0,13
	VCMW 110304														△					6,35	3,18	0,40	2,80	1,50	0,05	3,10	0,20	0,08	0,26
	VCMW 130304													○	○					7,94	3,18	0,40	3,40	2,00	0,05	3,80	0,20	0,08	0,26
	VCMW 160404													●	○					9,53	4,76	0,40	4,40	2,30	0,05	4,70	0,20	0,08	0,26
	VCMT 110302-NFP			△	●															6,35	3,18	0,20	2,80	0,30	0,07	1,50	0,07	0,03	0,13
	VCMT 110304-NFP	△	●	△	●															6,35	3,18	0,40	2,80	0,30	0,10	1,50	0,10	0,05	0,20
	VCMT 160402-NFP			△	●															9,53	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
	VCMT 160404-NFP	△	●	△	●															9,53	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
	VCMT 160408-NFP	△	●	△	●															9,53	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
	VCMT 160412-NFP	△	●																	9,53	4,76	1,20	4,40	0,32	0,14	1,80	0,16	0,09	0,32
	VCMT 110302-NFM								△	●	●						●			6,35	3,18	0,20	2,80	0,30	0,07	1,50	0,07	0,03	0,13
	VCMT 110304-NFM								△	●	●						●			6,35	3,18	0,40	2,80	0,30	0,10	1,50	0,10	0,05	0,20
	VCMT 160402-NFM								△	●	●						●			9,53	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
	VCMT 160404-NFM								△	●	●						●			9,53	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
	VCMT 160408-NFM								△	●	●						●			9,53	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
	VCMT 160412-NFM								△	●	●						●			9,53	4,76	1,20	4,40	0,32	0,14	1,80	0,16	0,09	0,32

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

V - RHOMBIC 35°

positive inserts - relief angle 7°



MAKE YOUR CHOICE		P					M					K		N	S	Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG125	NX9710	NX9720	NX1515	NXS215	NX1525	NXS225	NX9710	NX9720	NX7505	NX3520	NX7540	NX9010	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	VCMT 110304-NFK													●	○					6,35	3,18	0,40	2,80	0,30	0,10	1,50	0,10	0,05	0,20
	VCMT 160402-NFK													●	○					9,53	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
	VCMT 160404-NFK													●	○					9,53	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
	VCMT 160408-NFK													●	○					9,53	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
	VCMT 110304-NMP	△	●	△	●	○														6,35	3,18	0,40	2,80	0,77	0,31	2,55	0,15	0,10	0,25
	VCMT 110308-NMP	△	●	△	●	○														6,35	3,18	0,80	2,80	0,77	0,61	2,55	0,20	0,13	0,33
	VCMT 160404-NMP	△	●	△	●	○														9,53	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
	VCMT 160408-NMP	△	●	△	●	○														9,53	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
	VCMT 160412-NMP	△	●	△	●	○														9,53	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32
	VCMT 110304-NMM							△	●				●					●		6,35	3,18	0,40	2,80	0,77	0,31	2,55	0,15	0,10	0,25
	VCMT 110308-NMM							△	●				●					●		6,35	3,18	0,80	2,80	0,77	0,61	2,55	0,20	0,13	0,33
	VCMT 160404-NMM							△	●				●					●		9,53	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
	VCMT 160408-NMM							△	●				●					●		9,53	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
	VCMT 160412-NMM							△	●				●					●		9,53	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32
	VCMT 110308-NMK													●	●					6,35	3,18	0,80	2,80	0,77	0,61	2,55	0,20	0,13	0,33
	VCMT 160404-NMK													●	●					9,53	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
	VCMT 160408-NMK													●	●					9,53	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
	VCMT 160412-NMK													●	●					9,53	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32
	VCGT 110301-NFS					●	●					●	●				●	●		6,35	3,18	0,10	2,80	0,30	0,10	1,00	0,03	0,01	0,08
	VCGT 110302-NFS					●	●					●	●				●	●		6,35	3,18	0,20	2,80	0,50	0,10	1,50	0,07	0,02	0,12
	VCGT 110304-NFS					●	●					●	●				●	●		6,35	3,18	0,40	2,80	1,00	0,30	2,50	0,15	0,08	0,25
	VCGT 110301-NLN											○					●	○		6,35	3,18	0,10	2,80	1,53	0,05	3,00	0,04	0,02	0,06
	VCGT 110302-NLN											○					●	○		6,35	3,18	0,20	2,80	1,53	0,05	3,00	0,07	0,05	0,12
	VCGT 110304-NLN											○					●	○		6,35	3,18	0,40	2,80	1,53	0,05	3,00	0,15	0,10	0,25
	VCGT 110308-NLN											○					●	○		6,35	3,18	0,80	2,80	1,53	0,05	3,00	0,22	0,15	0,45
	VCGT 130302-NLN											○					●	○		7,94	3,18	0,20	3,40	2,00	0,10	4,00	0,07	0,05	0,12
	VCGT 130304-NLN											○					●	○		7,94	3,18	0,40	3,40	2,00	0,10	4,00	0,15	0,10	0,25
	VCGT 160402-NLN											○					●	○		9,53	4,76	0,20	4,40	2,30	0,10	5,00	0,07	0,05	0,12
	VCGT 160404-NLN											●					●	●		9,53	4,76	0,40	4,40	2,55	0,10	5,00	0,15	0,10	0,25
	VCGT 160408-NLN											○					●	○		9,53	4,76	0,80	4,40	2,55	0,10	5,00	0,22	0,15	0,45
	VCGT 160412-NLN											○					●	○		9,53	4,76	1,20	4,40	2,55	0,10	5,00	0,40	0,15	0,60
VCGT 220530-NLN											○					●	○		12,70	5,56	3,00	5,50	3,55	0,10	7,00	0,80	0,15	1,60	

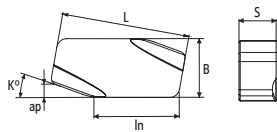
BAR PEELING INSERTS

negative inserts



INGR-NMP

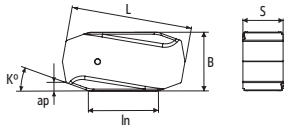
rectangular 90°



MAKE YOUR CHOICE		P					M		K	Dimensions (mm)											Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NX1535	NXS235	NXS228	NX3520	L	D	In	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	INGR 221240-NMP													38,25	-	22,00	17,50	12,00	-	-	4,00	20	2,00	0,40	4,00	3,50	1,00	8,00

JNGF-NMP

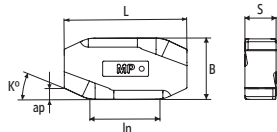
rectangular 90°



MAKE YOUR CHOICE		P					M		K	Dimensions (mm)										Cutting Conditions								
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NX1535	NXS235	NXS228	NX3520	L	D	In	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	JNGF 201220-NMP		○	△	⊗			△	⊗			○	○	36,90	-	20,00	18,00	12,35	-	-	2,00	20	1,50	1,00	2,00	3,50	1,50	6,00
	JNGF 201220-NMP SP1		○		○				○			○	○	36,30	-	20,00	18,00	12,45	-	-	2,00	20	1,50	1,00	2,00	3,50	1,50	6,00
	JNGF 201220-NMP SP2	△	⊗	△	⊗			△	⊗			○	○	36,50	-	20,00	18,00	12,45	-	-	2,00	20	1,50	1,00	2,00	3,50	1,50	6,00
	JNGF 271220-NMP		○		○			△	⊗			○	○	36,90	-	27,00	18,00	12,45	-	-	2,00	20	1,50	1,00	2,00	3,50	1,50	6,00

LNGF-NMP

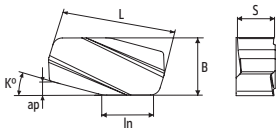
rectangular 90°



MAKE YOUR CHOICE		P					M			K	Dimensions (mm)										Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NX1535	NXS235	NXS228	NX3520	L	D	In	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	LNGF 201035-NMP	△	⊗		○			○				○	○	40,00	-	20,00	20,00	10,00	-	-	3,50	25	2,00	0,80	3,50	2,50	1,00	6,50
	LNGF 201235-NMP	△	⊗		○			○				○	○	40,00	-	20,00	20,00	12,00	-	-	3,50	25	2,00	0,80	3,50	2,50	1,00	6,50

UNGF-NMP

rectangular 90°



MAKE YOUR CHOICE		P					M		K	Dimensions (mm)										Cutting Conditions									
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NX1535	NXS235	NXS228	NX3520	L	D	In	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max	
	UNGF 171240-NMP		○	△	⊗			△	⊗				○	○	36,50	-	17,00	18,00	12,00	-	-	4,00	15	1,50	0,35	4,00	2,00	1,00	5,00

HEAVY TURNING - Tooling technology

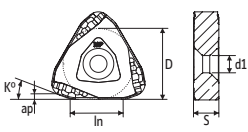
BAR PEELING INSERTS

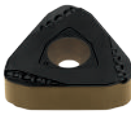
negative inserts



TNMJ-NMP

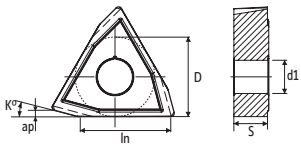
triangular 60°



MAKE YOUR CHOICE		P					M			K	Dimensions (mm)								Cutting Conditions										
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NX1535	NXS235	NXS228	NX3520	L	D	In	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max	
	TNMJ 201025-NMP	○	△	⊗				△	⊗				○	○	-	28,60	20,00	-	10,00	7,00	-	2,50	20	1,00	0,70	2,50	3,00	1,00	5,50
	TNMJ 201425-NMP	○	△	⊗				△	⊗				○	○	-	28,60	20,00	-	14,00	7,00	-	2,50	20	1,00	0,70	2,50	3,00	1,00	5,50

TNGM-NMP

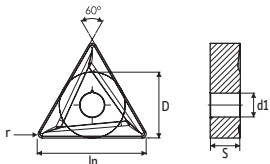
triangular 60°



MAKE YOUR CHOICE		P					M			K	Dimensions (mm)										Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NX1535	NXS235	NXS228	NX3520	L	D	In	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	TNGM 220812-NMP		○	△	⊗			△	⊗		○		○	-	19,05	22,00	-	8,00	7,96	-	1,20	15	0,70	0,20	1,30	14,00	5,00	18,00

TNMM-NLH

triangular 60°



MAKE YOUR CHOICE		P				M				K	Dimensions (mm)										Cutting Conditions								
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NX1535	NXS235	NXS228	NX3520	L	D	In	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max	
	TNMM 441116-NLH	○				△	⊗			△	⊗	○	○	-	25,40	44,00	-	25,40	44,00	1,60	-	-		12,00	2,00	25,00	0,80	0,50	1,60

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

HEAVY TURNING - Tooling technology

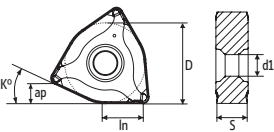
BAR PEELING INSERTS

negative inserts



XNMJ-NMP

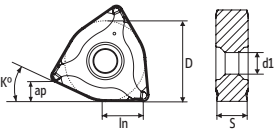
special 85°



MAKE YOUR CHOICE		P					M			K	Dimensions (mm)										Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NXS235	NX2528	NXS228	NX3520	L	D	ln	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	XNMJ 151380-NMP	○	△	⊗				△	⊗		△	⊗	○	-	31,75	15,00	-	13,00	9,00	-	8,00	25	3,00	1,00	6,50	6,00	4,00	12,00

XNMJ-NMH

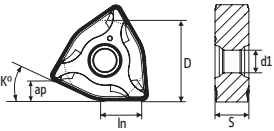
special 85°



MAKE YOUR CHOICE		P					M			K	Dimensions (mm)										Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NXS235	NX2528	NXS228	NX3520	L	D	ln	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	XNMJ 151380-NMH		○	△	⊗			△	⊗		△	⊗	○	-	31,75	15,00	-	13,00	9,00	-	8,00	25	3,00	1,00	6,50	6,00	4,00	12,00

XNGJ-NRP

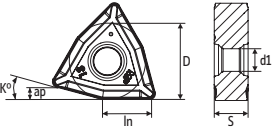
special 85°



MAKE YOUR CHOICE		P					M			K	Dimensions (mm)										Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NXS235	NX2528	NXS228	NX3520	L	D	ln	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	XNGJ 151380-NRP		○		○				○		△	⊗	○	-	31,75	15,00	-	13,00	9,00	-	8,00	25	3,00	1,00	6,50	6,00	4,00	12,00

WNGJ-NMP

special 75°



MAKE YOUR CHOICE		P					M			K	Dimensions (mm)										Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NXS235	NX2528	NXS228	NX3520	L	D	ln	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	WNGJ 130950-NMP		○	△	⊗			△	⊗		△	⊗	⊗	-	22,23	13,00	-	9,56	7,93	-	5,00	15	3,00	0,50	5,00	6,00	3,00	11,00

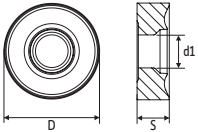
BAR PEELING INSERTS

negative inserts



RNMX-NMP

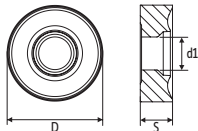
round R°



MAKE YOUR CHOICE		P				M				K				Dimensions (mm)								Cutting Conditions						
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NXS235	NX2528	NXS228	NX3520	L	D	ln	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	RNMX 381200-NMP	○		○				○		△	⊗	○		-	38,10	-	-	12,70	13,00	-	-	-	4,00	2,00	8,00	2,00	1,00	4,00
	RNMX 5018M0-NMP	○		○				○		△	⊗	○		-	50,00	-	-	18,00	12,70	-	-	-	6,00	2,00	12,00	3,50	2,50	6,50

RNMX-NRP

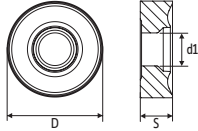
round R°



MAKE YOUR CHOICE		P					M				K		Dimensions (mm)								Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NXS235	NX2528	NXS228	NX3520	L	D	ln	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	RNMX 5018M0-NRP	○		○				○		△	⊗	○	○	-	50,00	-	-	18,00	12,70	-	-	-	6,00	2,00	12,00	6,00	4,00	10,50

RNMG-NST

round R°



MAKE YOUR CHOICE		P					M			K	Dimensions (mm)										Cutting Conditions							
Inserts	ISO Reference	NX1515	NXG115	NX1525	NXG215	NX1535	NXG135	NX1525	NXS225	NXS235	NX2528	NXS228	NX3520	L	D	ln	B	S	d1	r	ap	K°	ap (mm)	Min	Max	fn (mm/r)	Min	Max
	RNMG 250900-NST													-	25,40	-	-	9,52	9,12	-	-	-	5,00	2,50	10,00	1,00	0,25	2,50

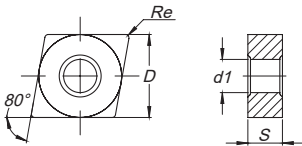
● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

RAILWAY INSERTS

negative inserts

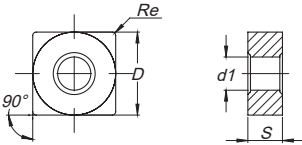


C - RHOMBIC 80°



MAKE YOUR CHOICE		P						M						K	S	Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1515	NXS215	NX1525	NXS225	NX7540	NXS240	NX7505	NX3520	NX7540	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	CNMM 190612-NHY	△	●	△	●	△			△		△		△	●						19,05	6,35	1,20	7,94	6,00	2,00	12,00	0,50	0,35	0,80
	CNMM 190616-NHY	△	●	△	●	△			△		△		△	●						19,05	6,35	1,60	7,94	6,00	2,00	12,00	0,60	0,35	1,00
	CNMM 190624-NHY	△	●	△	●	△			△		△		△	●						19,05	6,35	2,40	7,94	6,00	2,00	12,00	0,60	0,35	1,20
	CNMM 250924-NHY	△	●	△	●	△			△		△		△	●						25,40	9,52	2,40	9,12	8,00	2,50	15,00	0,70	0,40	1,40
	CNMM 190612-NHZ	△	●	△	●	△	●								●	●				19,05	6,35	1,20	7,94	10,00	2,40	12,00	0,65	0,50	0,80
	CNMM 190616-NHZ	△	●	△	●	△	●								●	●				19,05	6,35	1,60	7,94	10,00	2,40	12,00	0,80	0,50	1,10
	CNMM 190624-NHZ	△	●	△	●	△	●								●	●				19,05	6,35	2,40	7,94	10,00	3,20	12,00	1,00	0,60	1,60
	CNMM 250924-NHZ	△	●	△	●	△	●								●	●				25,40	9,52	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60

S - SQUARE 90°



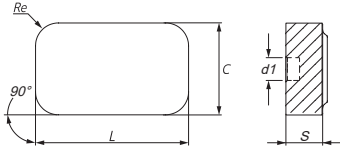
MAKE YOUR CHOICE		P						M				K		S		Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1515	NXS215	NX1525	NXS225	NX7540	NXS240	NX7505	NX3520	NX7540	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	SNMM 190612-NHY	△	●	△	●	△	●	△		△			△	●						19,05	6,35	1,20	7,94	6,00	2,00	12,00	0,60	0,35	0,90
	SNMM 190616-NHY	△	●	△	●	△	●	△		△			△	●						19,05	6,35	1,60	7,94	6,00	2,00	12,00	0,60	0,35	1,20
	SNMM 190624-NHY	△	●	△	●	△	●	△		△			△	●						19,05	6,35	2,40	7,94	6,00	2,00	12,00	1,00	0,60	1,60
	SNMM 250724-NHY	△	●	△	●	△	●	△		△			△	●						25,40	7,94	2,40	9,12	8,50	2,50	15,00	1,00	0,60	1,60
	SNMM 250924-NHY	△	●	△	●	△	●	△		△			△	●						25,40	9,52	2,40	9,12	8,50	3,00	15,00	1,00	0,60	1,60
	SNMM 190612-NHZ	△	●	△	●	△	●								●	●				19,05	6,35	1,20	7,94	10,00	2,40	13,00	0,60	0,35	0,90
	SNMM 190616-NHZ	△	●	△	●	△	●								●	●				19,05	6,35	1,60	7,94	10,00	2,40	13,00	0,60	0,35	1,20
	SNMM 190624-NHZ	△	●	△	●	△	●								●	●				19,05	6,35	2,40	7,94	10,00	3,20	13,00	1,00	0,60	1,60
	SNMM 250724-NHZ	△	●	△	●	△	●								●	●				25,40	7,94	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60
	SNMM 250732-NHZ			△	●															25,40	7,94	3,20	9,12	10,00	3,20	17,00	1,20	0,80	1,80
	SNMM 250924-NHZ	△	●	△	●	△	●								●	●				25,40	9,52	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60

RAILWAY INSERTS

negative inserts

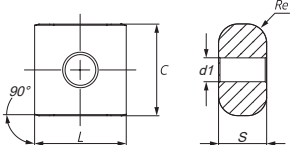


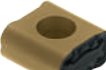
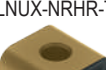
LNUX - RECTANGULAR 90°



MAKE YOUR CHOICE		P						M					K	S	Dimensions (mm)					Cutting Conditions										
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1515	NXS215	NX1525	NXS225	NX7540	NXS240	NX7505	NX3520	NX7540	NX9710	NX9720	L	C	Re	S	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
LNUX-NRMM																														
	LNUX321248-NRMM		△	●	△	●														31,75	19,05	4,76	12,70	7,87	3,00	1,50	18,00	0,80	0,30	1,50
LNUX-NRRM																														
	LNUX 321248-NRRM		△	●		○		○												31,75	19,05	4,76	12,70	7,87	3,00	1,50	18,00	1,00	0,80	1,50
LNUX-NRHR																														
	LNUX 321248-NRHR		△	●		○														31,75	19,05	4,76	12,70	7,87	3,00	1,50	18,00	1,20	0,50	1,80

LNUX-T - TANGENTIAL 90°



MAKE YOUR CHOICE		P						M					K	S	Dimensions (mm)					Cutting Conditions											
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1515	NXS215	NX1525	NXS225	NX7540	NXS240	NX7505	NX3520	NX7540	NX9710	NX9720	L	C	Re	S	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max	
	LNUX 191940-NRMM-T	△	●	△	●															19,05	19,05	4,00	10,00	6,35	2,50	1,60	8,00	0,80	0,30	1,50	
	LNUX 301940-NRMM-T	△	●	△	●																30,00	19,05	4,00	10,00	6,35	4,50	1,60	13,00	0,80	0,30	1,50
	LNUX 191940-NRRM-T	△	●	△	●																19,05	19,05	4,00	10,00	6,35	5,50	2,50	10,00	1,00	0,80	1,50
	LNUX 301940-NRRM-T	△	●	△	●																	30,00	19,05	4,00	12,00	6,35	3,00	2,50	12,00	1,00	0,50
	LNUX 191940-NRHR-T	△	●	△	●																19,05	19,05	4,00	10,00	6,35	5,50	2,50	10,00	1,20	0,50	1,80
	LNUX 301940-NRHR-T	△	●	△	●																	30,00	19,05	4,00	10,00	6,35	6,50	3,00	15,00	1,20	0,50

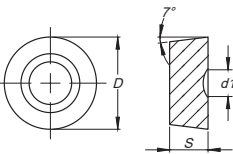
● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

RAILWAY INSERTS

positive inserts

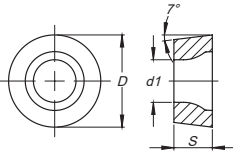


R - ROUND R°



MAKE YOUR CHOICE		P						M				K		S		Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1515	NXS215	NX1525	NXS225	NX7540	NXS240	NX7505	NX3520	NX7540	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
RCMR-RR 	RCMR 2507M0-NRR	●			●															25,00	7,94	-	9,00	5,00	3,20	8,00	1,80	0,80	2,50
	RCMR 3209M0-NRR	●			●															32,00	9,52	-	12,00	6,50	3,20	13,00	1,80	0,80	2,50

R - ROUND R°



MAKE YOUR CHOICE		P						M				K		S		Dimensions (mm)				Cutting Conditions									
Inserts	ISO Reference	NXG105	NX1515	NXG115	NX1525	NXG125	NX7540	NXG140	NX1515	NXS215	NX1525	NXS225	NX7540	NXS240	NX7505	NX3520	NX7540	NX9710	NX9720	D	S	Re	d1	ap (mm)	Min	Max	fn (mm/rev)	Min	Max
	RCMX 2006M0-NST																			20,00	6,35	-	6,50	5,00	2,00	8,00	0,63	0,20	2,00
	RCMX 2507M0-NST																			25,00	7,94	-	7,20	6,30	2,50	10,00	0,79	0,25	2,50
	RCMX 3009M0-NST																			30,00	9,55	-	10,00	7,00	3,00	11,00	0,85	0,30	2,80
	RCMX 3209M0-NST																			32,00	9,52	-	9,50	8,00	3,20	12,80	1,01	0,32	3,20
																													
	RCMX 3209M0-NRM																			32,00	9,52	-	9,50	6,50	3,20	13,00	1,80	0,80	2,50
																													
	RCMX 2507M0-NRR																			25,00	7,94	-	7,20	5,00	3,20	8,00	1,80	0,80	2,50
	RCMX 3209M0-NRR																			32,00	9,52	-	9,50	6,50	3,20	13,00	1,80	0,80	2,50

● First choice ● Stock item △ Stock item - Until sold out ○ Stock available under request

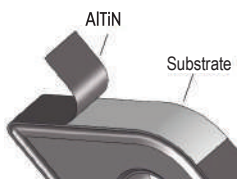
TURNING GRADES description



PVD GRADES

NX9710

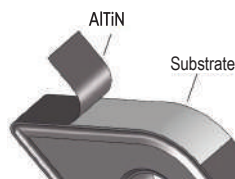
P05-P10
M05-M10
S05-S15



PVD (AITiN) coated carbide grade with a very hard micro grain substrate improves wear resistance, heat dissipation and avoid built-up edge. High performance on "gummy" materials. For light turning of steels, hardened steels, stainless steels and HRSA.

NX9720

P10-P35
M10-M25
S10-S30

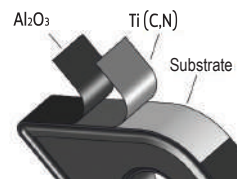


A micro grain size combined with the AITiN PVD coating make it suitable for Roughing to Finishing operations under good cutting conditions to light interrupted cuts at medium cutting speeds. Suitable for steels, stainless steel, HRSA.

CVD GRADES

NX1515

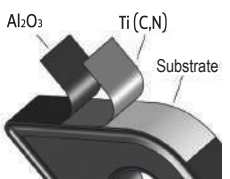
P10-P25
M10-M25



Medium temperature CVD coating with α- Al₂O₃. Carbide grade with a gradient layer close to the surface. Suitable for high to medium cutting speeds on steels & cast steels.

NX1525

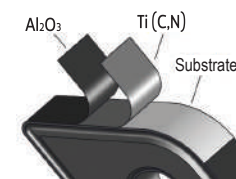
P20-P35
M15-M30



Carbide grade suitable for medium machining of steels & cast steels at medium cutting speeds. The substrate is suitable for the adhesion of the Alumina coating (α- Al₂O₃) medium temperature - CVD, improving the tool life.

NX7540

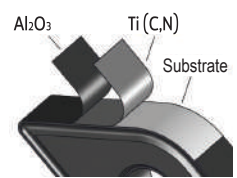
P25-P45
M25-M45
K20-K40



Substrate grade binary (Wc-Co) with medium grain size combined with the medium temperature CVD coating. Suitable for heavy roughing to roughing operations with interrupted cuts at medium to low cutting speeds.

NX7505

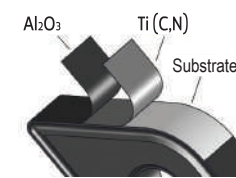
K05-K15



The substrate grade with a very good wear resistance combined with the MT-CVD coating allow to work at high to medium cutting speeds at stable conditions. Recommend for turning of grey cast irons (GCI) or hardened steels. Can also be a solution for high alloy steels.

NX3520

P01-P15
K10-K25



Medium temperature CVD coating (α-Al₂O₃) combined with a hard substrate make it capable of withstanding interrupted conditions. Recommended as general choice for roughing of all cast irons at low to medium cutting speeds. Can also be a solution for high alloy steels.

UNCOATED CARBIDE GRADE

NX9010

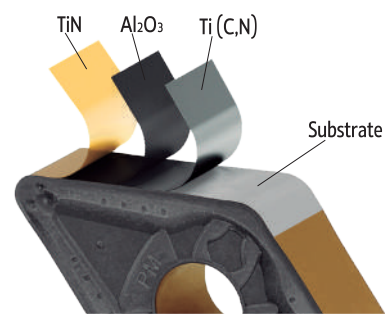
N01-N20



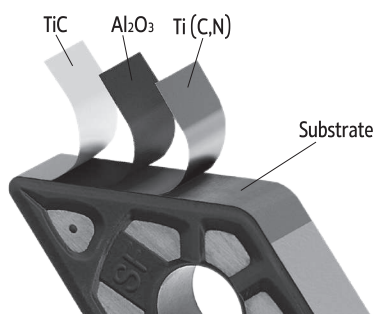
Uncoated carbide micrograin grade combining a good abrasive wear resistance and toughness. Suitable for rough to finish turning of HRSA, Titanium alloys, cast irons and Aluminium alloys.



CVD GRADES



New CVD coating with Al₂O₃+TiN.



New CVD coating with Al₂O₃+TiC.

NXG105
P05-P10

First choice for continuous cut with hardness higher than 38HRC

New CVD coating with Al₂O₃+TiN combined with a very hard substrate.

NXG115
P10-P25

Suitable for high to medium cutting speeds on steels

New CVD coating with Al₂O₃+TiN.

NXG125
P20-P35

Ideal for general application in all kind of steels

Carbide grade suitable for medium machining of steels at medium cutting speeds.

NXG140
P25-P45

First choice for roughing to heavy roughing operations with interrupted cut at medium to low cutting speeds

Binary substrate grade (Wc - Co) with medium grain size combined with a medium temperature CVD coating.

NXS215
M10-M25

Suitable for high to medium cutting speeds in stainless steel. Ideal for turning on good condition of cut (continuous cut)

New CVD coating with TiCN+Al₂O₃+TiC.

NXS225
M15-M30

First choice for general application on turning of stainless steels

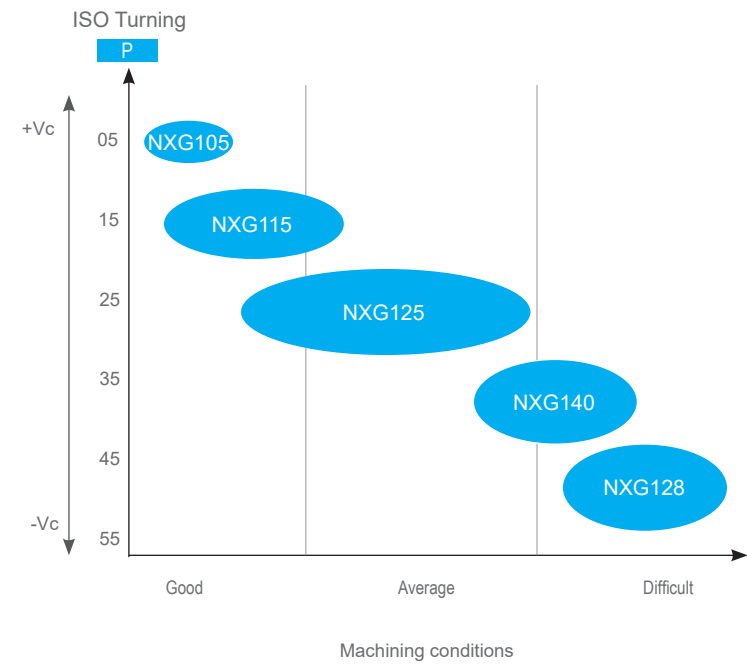
Carbide grade suitable for medium machining of stainless steels and super alloys at medium cutting speeds. New CVD coating with TiCN+Al₂O₃+TiC.

NXS240
M25-M45

First choice for roughing to heavy roughing operations with interrupted cut at medium to low cutting speeds on stainless steel

New CVD coating with TiCN+Al₂O₃+TiC.

GRADES CHART



NXG128
P40-P50

A very high toughness grade ideal for heavy roughing applications while using on large I.C inserts

New CVD coating with Al₂O₃+TiN.

GRADES CHART



NXS228
M40-M50

A very high toughness grade ideal for heavy roughing applications while using on large I.C inserts

New CVD coating with TiCN+Al₂O₃+TiC.

TURNING GRADES comparative chart



PVD Coated Grades

ISO		NexxTools	Sandvik	Kennametal	Iscar	Seco	Mitsubishi	Sumitomo	Tungaloy	Walter	Kyocera	Taegutec	Korloy	Ceratizit
Material														
STEEL	P01	NX9710									PR915 PR1005	PV3030	PC8110	
	P10	NX9710	GC1525 GC1025	KC5010 KC5510 KU10T	IC250 IC350 IC507 IC570 IC807 IC907 IC908	CP200 TS2001	VP10MF		AH710		PR915 PR1005 PR930 PR1025 PR1115 PR1225 PR1425	PV3010 PV3030 TT7080 TT1040	PC230	
	P20	NX9720	GC1525 GC1025 GC1125	KC5025 KC5525 KC7215 KC7315 KU25T	IC228 IC250 IC308 IC328 IC350 IC354 IC507 IC528 IC570 IC807 IC808 IC907 IC908 IC928 IC1008 IC1028 IC3028	CP250 TS2500	VP10RT VP20RT VP15TF VP20MF	AC520U	AH710 AH725 AH120 SH730 GH730 GH130		PR930 PR1025 PR1115 PR1225	TT7220 TT9020 TT7080 TT9080 TT7070	PC5300 PC8115	SR226 GM127
	P30	NX9720	GC1025 GC1125	KC7015 KC7020 KU25T KC7235	IC228 IC250 IC328 IC330 IC354 IC528 IC1008 IC1028 IC3028	CP500	VP10RT VP20RT VP20MF	AC530U	AH725 AH120 SH730 GH730 GH130 AH740 J740			TT9030 TT7030 TT7080 TT9030 TT9080	PC8115	GM40 CTP1235 CTP2235 SR226 GM127
	P40	NX7740		KC7040 KV7140 KV7030	IC228 IC328 IC330 IC528 IC1008 IC1028 IC3028	CP500		AC530U	AH740 J740			TT7080 TT8030 TT7070	PC3545	CTP2440 GM40 CTP1235 CTP2235
STAINLESS STEEL	M01	NX9710	GC1005		IC520	TS2000 CP200	VP10MF			WSM10	PR915	TT5080		
	M10	NX9710	GC1005 GC1025 GC1125 GC1105	KC5010 KC5510 KC6005 KC6015	IC330 IC354 IC507 IC520 IC570 IC807 IC907 IC3028	CP200 TS2000	VP10MF		AH710	WSM20	PR915 PR1025 PR1225 PR1425	TT5030 PV3010 PV3030 TT9030	PC8110 PC9030	
	M20	NX9720	GC1005 GC1025 GC1125 GC1105	KC5025 KC5525 KC7020 KC7025	IC250 IC330 IC354 IC808 IC908 IC1008 IC1028 IC3028	CP250 TS2500 CP500	VP10RT VP20RT VP15TF VP20MF	AC520U	AH710 AH725 AH120 SH730 GH730 GH130 GH330 AH60	WSM30	PR1025 PR1125 PR1225 PR915 PR930	TT5030 PV3030 TT9020 TT9030	PC9030 PC8110 PC8115	CTP2120 CTP1235 SR226 GM127
	M30	NX9720	GC1125 GC2035	KC7030 KC7225	IC228 IC250 IC328 IC330 IC1008 IC1028 IC3028	CP500	VP10RT VP20RT VP15TF VP20MF MP7035	AC520U AC530U	GH330 AH725 AH120 AH730 GH730 GH130 J740 AH645		PR1125	TT9030 TT9080 TT8030	PC9030	CTP2240 CTP1235 CTP2235 SR226 GM127
	M40	NX7740	GC2035		IC328 IC928 IC1008 IC1028 IC3028		MP7035	AC530U	J740			TT8010 TT8020 TT8030	PC5400	CM40 CM45 CTP2440

NX9710 = Best available choice

TURNING GRADES comparative chart



ISO		NexxTools	Sandvik	Kennametal	Iscar	Seco	Mitsubishi	Sumitomo	Tungaloy	Walter	Kyocera	Taegutec	Korloy	Ceratizit
Material														
CAST IRON	K10			KC5010 KC7210	IC350 IC1008	CP200 TS2000		AC510U	GH110 AH110 AH710		PR905	PV3010 PV3030	PC5300	SR216 SR226
	K20			KC7015 KC7215 KC7315	IC228 IC350 IC808 IC908 IC1008	CP200 CP250 TS2000 TS2500	VP10RT VP20RT VP15TF		GH110 AH110 AH710 AH725 AH120 GH730 GH130		PR905	TT6060 TT8020 TT8030	PC5300	CTP2120 CTP2440 SR216 SR226
	K30			KC7225	IC228 IC350 IC808 IC908 IC1008	CP500	VP10RT VP20RT VP15TF		AH725 AH120 GH730 GH130			TT9030 TT6290 TT9030 TT8030		CTP2440
HEAT RESISTENT / TITANIUM ALLOYS	S01	NX9710			IC507 IC907		MP9005 VP05RT		AH905 AH905 SH730	WDSM10	PR915		PC8110	
	S10	NX9710	GC1105 GC1005 GC1025	KC5010 KC5410 KC5510	IC507 IC903 IC300 IC808	CP200 CP250 TS2000 TS2500 CP250	MP9015 VP10RT MP9015	AC510U	AH110 AH120	WSM20	PR915	TT5030 TT5030	PC8110 PC8115 PC8105	CM40 SR226 CM45
	S20	NX9720	GC1025 GC1125	KC5025 KC5525	IC908 IC928 IC3028 IC806	TS2500 CP500	MT9015 VP20RT	AC510U AC520U	AH120 AH720	WSM30	PR1125	TT8020 TT8030	PC8815 PC5300	CTP2440 GM127
	S30	NX9720	GC1125				VP15TF	AC520U	AH725		PR1125	TT8020	PC5400	CTP2135

NX9710 = Best available choice

TURNING GRADES comparative chart



CVD Coated Grades

ISO		NexxTools	Sandvik	Kennametal	Iscar	Seco	Mitsubishi	Sumitomo	Tungaloy	Walter	Kyocera	Taegutec	Korloy	Ceratizit
Material														
P	P05	NXG105	GC4205 GC4005	KCP05 KC9105	IC9150 IC8150 IC428	TP0500 TP1500	UE6105	AC810P AC700G	T9105 T9005	WPP01	CA510 CA5505	TT1300	NC3010	
	P10	NXG105 NX1515 NXG115	GC4315 GC4215 GC4015 GC4325	KCP10B KCP10 KCP25 KC9110	IC9150 IC9015 IC8150 IC8250	TP1500 TP2500	UE6105 MC6015 UE6110 MY5015	AC810P AC700G AC820P AC2000	T9105 T9005 T9115	WPP01 WPP05	CAS510 CA5505 CA515 CA5515	TT1300 TT7310 TT7400	NC3215	CTC1110 CTC1115 CTC3110 TCC410
	P20	NX1515 NXG115 NX1525 NXG125	GC4315 GC4215 GC4015 GC4325 GC4225 GC4025	KCP25B KCP25 KC9125	IC9015 IC8250 IC9050 IC9250 IC8350	TP2500	MC6015 UE6110 MC6025 UE6020 MY5015	AC820P AC2000 AC830P	T9115 T9125	WPP10S WPP20S	CA515 CA5515 CA525 CA5525 CR9025	TT3500 TT5100 TT7400 KT7300 TT7800	NC3220 NC3220 NC3120	CTC1110 CTC1115 CTC1125 CTC1130 CTC1425
	P30	NX1525 NXG125	GC4325 GC4225 GC4025 GC4235 GC4035	KCP30 KCP40 KCP8050	IC8350 IC9250 IC9350	TP3500 TP3000	MC025 UE6020 UE6035 UH6400	AC830P AC630M	T9125 T9135 T9035	WPP30S	CA525 CA5525 CA530 CA5335 CR9025	TT3500 TT5100 TT7400 KT7300	NC3215 NC3225 NC3120	CTC1125 CTC1130 CTC1135 CTC1425
	P40	NXG140 NX7540	GC4235 GC4035	KCP30 KCP40 KC9140 KC9040 KC9240 KC9245	IC9350	TP3500 TP3000	UE6035 UH6400	AC630M	T9135 T9035		CA530 CA5535	TT5100 TT7100 KT7300 TT7800	NC500H NC5330	CTC1135 CTC1435 CTC2135
	P50	NXG128	GC4035	KC9245	IC9350									
	P50	NXG128	GC4035	KC9245	IC9350									
M	M10	NXS215 NX1515	GC2015	KCM15	IC9250 IC6015 IC8250	TM2000	MC7015 US7020	AC610M	T9115	WAM20	CA6515		NC9020	CTC1110 CTC1115
	M20	NXS215 NX1515 NXS225 NX1525	GC2015	KCM15 KC9225	IC9250 IC6015 IC9025 IC656	TM2000	MC7015 US7020 MC7025	AC610M AC6030M AC630M	T6020 T9125		CA6515 CA6525	TT5100	NC9020	CTC1115 CTC1125 CTC1130 CTC1135
	M30	NXS225 NX1525 NXS240 NX7540	GC2025	KCM25 KC9230	IC9350 IC6025 IC635	TM4000	MC7025 US735	AC6030M AC630M	T6030		CA6525	TT5100 TT7100	NC9025	CTC1125 CTC1135 CTC1425 CTC1435 CTC2135
	M40	NXS240 NX7540	GC2025	KCM35 KC9240 KC9245	IC6025 IC9350	TM4000	US735	AC6030M AC630M				TT7100	NC9025	CTC2135
	M50	NXS228	GC2035	KC9245	IC9350								NC9035	
K	K05	NX7505	GC3205 GC3210	KCK05	IC5005 IC9007	TH1500 TK1001 TK1000	MC5005 UC5105	AC405K AC410K	T5105	WAK10	CA4505 CA4010			
	K10	NX7505 NX3520	GC3205 GC3210 GC3215	KCK15B KCK15B KC920 KC9315	IC5005 IC5010 IC9150 IC428 IC4028	TK1001 TK1000 TK2000 TK2001	MC5015 UC5115 MY5015	AC405K AC410K AC415K AC420K AC700G	T5115	WAK20	CA4515 CA4110 CA4115	TT3100 TT7310 TT8115	NC6205 NC6210 NC6215	CTC1110 CTC1115 CTC3110 TCC410 CTC3215
	K20	NX3520	GC3215	KCK20 KC9110 KC9325	IC5010 IC8150 IC9150 IC9015 IC418	TK2001 TK2000	MC5015 UC5115 UE6110 MY5015	AC415K AC420K AC700G AC820P	T5115 T5125	WAK30	CA4515 CA4115 CA4120	TT7310 TT8115	NC6215	CTC1115 CTC1125 CTC1130 CTC1425 CTC3215
	K30	NX7540		KC9125 KC9325	IC9015 IC418		UE6110	AC820P	T5125					TSC30
2	S01		S05F				US905				CA6515 CA6525 CA6535			

TURNING - Tooling technology



TURNING GRADES comparative chart

ISO		NexxTools	Sandvik	Kennametal	Iscar	Seco	Mitsubishi	Sumitomo	Tungaloy	Walter	Kyocera	Taegutec	Korloy	Ceratizit
Material														
N	N01		H10		IC20				KS05F	WK1	KW10	K10		
	N10		H10 H13A	KU10 K313 K68	IC20 IC08 IC28	890 HX KX	HTI10		TH10	WK1	KW10 KWK15	K10	H01	
	N20		H10 H13A	KU10 K313 K68	IC08 IC28	HX KX 883		H1	KS15F	WK1	KW10 KWK15		H01	
	N30				IC28									

NX9710 = Best available choice

TURNING - Tooling technology

NEGATIVE INSERTS CHIP-BREAKER comparative chart



Application		NexxTools	Sandvik	Kennametal	Iscar	Seco	Tungaloy	Mitsubishi	Sumitomo	Walter	Kyocera	Taegutec	Korloy	Ceratizit
Mat.	Operations													
P	Finishing	FM	QF	FS, LF	SF, PP TF		01 TF	PK FH	FA		DP	FA	VF, HU	
	Medium to Finishing	NMF, NLC	PF, QF, LC MF, R/L-K	FF, FN	F3P, NF, SF	FF2,FF1	TS , TSF, ZF 11, NS, AS, TQ, NM, CB, C	SA, FY, C, SH, MP	SU, FL, SE, SX	NF3, NS6	PQ , VFCJ PQ, GP, PP, HQ, GS, CQ	FG, VF, EA FC, MC, ML, MP	VL	CF , TF
	Medium Wiper	NMW*	WL, WF, WMX WM, WR	FW, MW, RW	WF, WG	W-MF2, W-MF3	AFW , FW, ASW, SW	SW	LUW, SEW, GUW	NF, NM	WP, WQ	WS, WT		TFQ, TMQ
	Medium to Roughing	NPM, NMR	PM, QM, XM , XRM	P, MN	M3P, M3M, PP, TF, GN	MR7, MR6, M5, M6	TM , AM, DM, ZM All-round	MA, MH, MP	GU GE , UX	NMT, NM4	HS, PT, GT, CS, PS	PC , MT MC , MG-	VM	TMF , TMM M50
	Roughing	NHR, NRP*	HM , PR MR	RN , RP MR	NR MR	MR6, R5	TH, THS	RP, GH HZ, HL	MU , ME HG	NM5, NM6 NM9	PH All-round	RT	GR, HR	TM, TRM
	Heavy Roughing	NRP*, NHY*, NHZ*	PR , MR, HR , QR	RM RH	R3P, NM	R4, RR6	TU, TRS, TUS	HM, HX HV	HG , HP HU, HW HF	NR6, NRF NRR	PX	HT , HD RX , RH HY , HZ	GH, VT	TRR , TR, R28 , R58 R88
M	Finishing	NMF, NSF	MF, XF, LC, R/L-K	FP	TF, VL	FF2, FF1, MF1	SF, SA, SS	GM, MS, SH, LM	EX, EG, SU, EF	NF4 NMS	GU, MQ	EA, SF, SU, FG	VP2	CF , F30 M34 F32 , TF
	Medium	NMS, NSF	MM , QM, XM , XRM	MP, P	M3M , PP	MF2, FF2, MF5	SM S	MM, MA ES	GU HM	NM4	TK MU	EM , ET	VP3, HS	TMF , M42 M30 , M52
	Roughing	NSS, NRP, NHZ*	MR HM, PR	UP, RP	MR , MH	M5, M6, R8, RS, R6	TH , SH, TU	GH , RM, HZ	EM , MU	NR4, NRT, NRS	MS		*GR, VM, VH, GH"	TM, M60, TRM, TMR, TRR R80
K	Medium to Finishing	NST	KF , XF	FN	GN	M4, M5	CF	LK, MA	UZ		C	FG	B25	CF
	Medium	NST, NHR, FLAT	KM , QM, XM, XRM	RP , UN		FLAT	CM All-round	MK GK	GZ	NM5	ZS All-round	MT MG	FLAT	M50
	Roughing to Heavy Roughing	NHR, FLAT, NHZ*	KR Without chipbreaker	Without chipbreaker		MR7, M5	CH Without chip-breaker	RK Without chip-breaker	Without chip-breaker	Without chip-breaker	GC Without chip-breaker	RT	GR	TMR , TR R28, R58, R88
N	Medium	NMS	MF, QM	MS , MP MG	PP	-	P		AX		AH , A3	ML	HA	F32
S	Finishing	NSF, NMS	SF 01	FS , LS MS		MF1, M1	HRF	FJ , LS	EF EX	NFT NF4	MQ	SF	VP1	
	Medium	NSF, NSS	MM, QM SMR	UP , P, NGP RP	PP	MR3, MR4	HRM, HMM, SA	MS RS GJ	EG MU	NMS NM4, NRS, NR4	TK MS MU	SU	VP2, VP3	M34 , M52

NMS = Best available choice

*=Wiper

"= Single face insert

POSITIVE INSERTS CHIP-BREAKER comparative chart



Application		NexxTools	Sandvik	Kennametal	Iscar	Seco	Tungaloy	Mitsubishi	Sumitomo	Walter	Kyocera	Taegutec	Korloy	Ceratizit
Mat.	Operations													
P	Fine Finishing	NFS	UM	UF	SF	F1, MF2	01	FV, SMG	FC, FW	PF2	CF, CK	FA	HFP	F32
	Finishing	NFS, NFP	R/L-K, PF, XF UF	11, GM, LF	PF, SM, 14 17, 19, XL	FF1, F2, M3, MF2	PSF, PF, SS PS, PSS, TS	FP, FV, SV, LP	FP, FZ, LU, FK, SS, SC SU, SK, SF	PF5, PF4, PS5	CQ, GK, GP HQ, XP, XQ	FG, GF	VF, VL, F	SF, SMF, SMQ
	Finishing Wiper	NFW*	WF	FW	WF	W-F1	TSW, W08	SW	LUW, SDW	PF				
	Finishing to Medium	NMP	PM	MF, MP, GM, MR	DT, HQ	MF2	PM, 23, 24 RS	MP, MV	SU, UM, UJ	PM5	VF, MF	MT, PC	HMP, C25, M .CMX	SM
	Finishing to Medium Wiper	NMW*	WM	MW	WG			MW		PM		WT		
M	Fine Finishing	NFS	UM	LF, GM	SM	F1, MF2, FF1	PSF	FJ	FC	PF2	GQ, GF	FG	HFP	
	Finishing	NFS, NFM, NLM	MF, UF, R/L-K	MF	PF, 14	F2, M3	SS, PSS	FM, FV, SV	SU	PF4	MQ	FA	VF, F	SF, SMF, SMQ
	Finishing Wiper	NFW*	WF	FW	WF	W-F1		SW		PF				
	Finishing to Medium	NMM, NLM	MM, XM	MF, MP	SM	MF2, M5	PM	MM, MV	UM	PM5	XQ, VF	MT, PC	HMP, C25, M	F23, F43, SM
	Finishing to Medium Wiper	NMW*	WM	MW	WG			MW		PM		WT		
K	Finishing	NFK	KF	11	PF	M3		FV	SK		GK	FA	HMP	SF
	Finishing Wiper	NFW*	WF	FW	PF	W-F1		SW	LUW	PF		MT, PC		
	Finishing to Medium	NMK, FLAT	KM, KR	MF, MP, FLAT	PM5, 19, FLAT	M5	CM, FLAT	MV, MK, FLAT	UM, FLAT	PM5, PS5	FLAT	FALT	C25, HMP, FLAT	25P, 27, 29
	Finishing to Medium Wiper	NMW*	WM	MW		W-F2		MW		PM		WT		
N	Medium	NLN	AL	HP, GT	AF, AS	AL	AL, PP	AZ, R/L-F	AG, AX, AY	PF2, PM2	AH, A3	FL	AK, AR	23P, 25P, 27
S	Fine Finishing	NFS	UM	LF	SM	F1, MF2	PSF, PF, SS PS, PSS, TS	FJ	FC	PF2	GQ		HFP	SF
	Finishing	NFM, NLM	MF, UF, R/L-K	GM	PF, 14	F1	PSS, PS	FV	FX, FY	PF4	MQ	FA	HFP	F23, F43, SM
	Finishing Wiper	NFW*	WF	FW	WF					PF				
	Finishing to Medium	NMM, NLM	MM, XM	MF	SM		PM	MV	SI	PM5	MQ	FG	HMP	SM, 25P 29
	Finishing to Medium Wiper	NMW*	WM	MW	WG					PM				

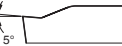
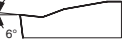
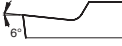
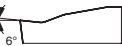
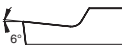
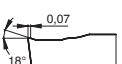
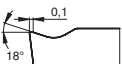
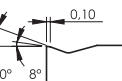
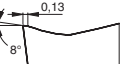
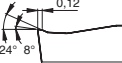
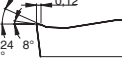


Insert Type	Application	Tolerance Class	Major field of Application	Geometry	Cutting Edge*		Cutting Conditions**		Available Shapes							
					at the nose radius	at the flank										
							Feed Fn (mm/rev)	Depth of cut DOC (mm)	KN __	CN __	DN __	RN __	SN __	TN __	VN __	WN __
Knux's	Finishing	U	P M K	N01			0,20 to 0,35	1,00 to 6,00	●	●						
	Medium	U	P M K	N02			0,40 to 0,70	1,50 to 6,00	●							
NEGATIVES - double side	Medium Finishing	M	P M	N01			0,12 to 0,50	1,00 to 6,50			●			●		
	Roughing to Medium	M	P M	N02			0,14 to 0,50	0,70 to 5,00			●					
	Medium Finishing	M	P M	N03			0,15 to 0,50	0,80 to 6,00			●					
	Medium Finishing	M	P M	NMF			0,05 to 0,60	0,10 to 2,50		●	●		●	●	●	●
	Medium Finishing	M	M N S	NMS			0,10 to 0,80	0,20 to 4,50		●	●			●	●	●
	Medium Finishing	M	M S	NSF			0,10 to 0,55	0,60 to 3,00		●	●		●	●	●	●
	Medium Finishing	M	P	NLC			0,07 to 0,50	0,60 to 3,00		●	●			●	●	●
	Medium Finishing	M	K	NST			0,10 to 2,50	0,15 to 10,50		●	●	●	●	●	●	●
	Medium Finishing	M	P	NMR			0,10 to 0,70	0,30 to 9,00		●	●		●	●	●	●
	Medium Finishing	M	P	NPM			0,10 to 0,60	0,30 to 9,00		●	●			●		●
* T-Land varies according to the IC (IC reference used: 12,7mm) ** Cutting Conditions varies according to the Insert shape, IC and Nose Radius																



Insert Type	Application	Tolerance Class	Major field of Application	Geometry	Cutting Edge*		Cutting Conditions**		Available Shapes							
					at the nose radius	at the flank										
							Feed Fn (mm/rev)	Depth of cut DOC (mm)	KN __	CN __	DN __	RN __	SN __	TN __	VN __	WN __
NEGATIVES - double side	Medium Finishing	M	K	Flat			0,08 to 2,50	0,10 to 15,00		●	●	●	●	●	●	●
	Medium Wiper	M	P M K	NMW			0,15 to 0,90	0,30 to 6,00		●	●			●		●
	Roughing to Medium roughing	M	M S	NSS			0,10 to 1,00	0,30 to 8,50		●	●		●	●	●	●
	Roughing	M	P M K	NHR			0,20 to 1,20	0,80 to 15,00		●	●		●	●		●
NEGATIVES - Single side	Roughing	M	P M	NRP			0,30 to 1,50	2,00 to 12,00		●			●			
	Heavy Roughing to Roughing	M	P M	NHY			0,35 to 1,60	2,00 to 15,00		●			●			
	Heavy Roughing	M	K	NHZ			0,35 to 1,60	2,40 to 17,00		●			●			
* T-Land varies according to the IC (IC reference used: 12,7mm) ** Cutting Conditions varies according to the Insert shape, IC and Nose Radius																



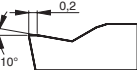
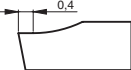
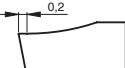
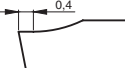
Insert Type	Application	Tolerance Class	Major field of Application	Geometry	Cutting Edge*		Cutting Conditions**		Available Shapes							
					at the nose radius	at the flank										
							Feed Fn (mm/rev)	Depth of cut DOC (mm)	CC __ 80° 	DC __ 55° 	RC __ 	SC __ 90° 	TC __ 60° 	VC __ 35° 	VB __ 35° 	
POSITIVES - Clearance angle 5° and 7°	Fine Finishing	M	P	NFP			0,03 to 0,45	0,06 to 2,40								
		M	P M S	NBO			0,05 to 0,30	0,30 to 1,50								
		M	M S	NFM			0,03 to 0,45	0,06 to 2,40								
		M	 K	NFK			0,03 to 0,30	0,06 to 2,40								
	Fine Finishing wiper	M	P M K S	NFW			0,05 to 0,50	0,30 to 3,50								
	Finishing	M	M S	NLM			0,08 to 0,35	0,20 to 3,00								
	Finishing to fine finishing	G	P M S	NFS			0,01 to 0,25	0,10 to 3,00								
	Finishing to fine finishing	G	 N	NLN			0,05 to 1,60	0,05 to 7,00								
	Finishing	M	K	Flat			0,04 to 0,80	0,05 to 6,30								
			P		NMP			0,06 to 0,60	0,19 to 3,60							
	Finishing	M	M S	NMM			0,06 to 0,60	0,19 to 3,60								
	Finishing	M	K	NMK			0,06 to 0,60	0,19 to 3,60								
* T-Land varies according to the IC (IC reference used: 12,7mm)																
** Cutting Conditions varies according to the Insert shape, IC and Nose Radius																



Insert Type	Application	Tolerance Class	Major field of Application	Geometry	Cutting Edge*		Cutting Conditions**		Available Shapes							
					at the nose radius	at the flank										
							Feed Fn (mm/rev)	Depth of cut DOC (mm)	CC __ 80°	DC __ 55°	RC __ 	SC __ 90°	TC __ 60°	VC __ 35°	VB __ 35°	
POSITIVES - Clearance angle 5° and 7°	Finishing Wiper	M	P M K S	NMW			0,10 to 0,50	0,50 to 4,00								
	Medium	M	P M S	NCP			0,04 to 0,17	0,50 to 2,40								
	Medium to finishing		P M	NRF			0,25 to 2,50	2,50 to 10,00								
	Roughing to Medium	M	P M K P M	NST NRM NRR			0,05 to 3,20	0,80 to 12,80								

* T-Land varies according to the IC (IC reference used: 12,7mm)

** Cutting Conditions varies according to the Insert shape, IC and Nose Radius

Insert Type	Application	Tolerance Class	Major field of Application	Geometry	Cutting Edge*		Cutting Conditions**		Available Shapes	
					at the nose radius	at the flank	Feed Fn (mm/rev)	Depth of cut DOC (mm)	CC __	DC __
									80° 	55° 
POSITIVES - Clearance angle 11°	Medium to Finishing	U	P	Flat			0,05 to 2,20	1,00 to 10,00		
			M		0°	0°				
				K						
				S						
	Finishing to Fine Finishing	M	P	N12			0,03 to 0,55	0,10 to 3,00		
			M		0,2	0,4				
				K						
Medium	M	P	N13			0,03 to 0,55	0,20 to 7,00			
		M		0,2	0,4					
* T-Land varies according to the IC (IC reference used: 12,7mm)										
** Cutting Conditions varies according to the Insert shape, IC and Nose Radius										

CUTTING CONDITIONS



ISO	Material	Grade fn (mm/r) HB (brinell)	CVD Coating														
			Wear Resistance ←									Toughness →					
			NXG105			NX1515			NXG115			NX1525			NXG125		
			0.2	0.4	0.8	0.2	0.4	0.8	0.2	0.4	0.8	0.2	0.4	0.8	0.2	0.4	0.8
P	Unalloyed steel	125-170	280-380	210-300	200-250	250-350	180-270	170-220	250-350	180-270	170-220	200-295	170-240	150-215	200-295	170-240	150-215
	Low-alloy steel	180-350	220-280	200-260	170-210	190-250	170-230	140-180	190-250	170-230	140-180	170-230	140-210	120-190	170-230	140-210	120-190
	High-alloy stel	200-325	165-250	150-235	140-230	135-220	120-205	110-200	135-220	120-205	110-200	125-215	110-185	100-170	125-215	110-185	100-170
	Material	Grade fn (mm/r) HB (brinell)	CVD Coating						PVD Coating								
			Wear Resistance ←			Toughness →			Wear Resistance ←			Toughness →					
			NXG140			NX7540			NX9710			NX9720					
			0.2	0.4	0.8	0.2	0.4	0.8	0.2	0.4	0.8	0.2	0.4	0.8			
	Unalloyed steel	125-170	135-230	120-210	115-200	135-230	120-210	115-200	140-245	130-225	115-220	130-230	120-220	110-210			
	Low-alloy steel	180-350	125-205	105-185	95-185	125-205	105-185	95-185	130-230	125-225	125-215	125-220	115-210	100-200			
	High-alloy stel	200-325	105-205	75-175	50-135	105-205	75-175	50-135	-	-	-	-	-	-			

ISO	Material	Grade fn (mm/r) HB (brinell)	CVD Coating												
			← Wear Resistance						Toughness →						
			NXS215			NX1525			NXS225			NX7540			
			0.2	0.4	0.6	0.2	0.4	0.6	0.2	0.4	0.6	0.2	0.4	0.6	
M	SS - Ferritic/martensitic	200-330	125-260	100-220	80-200	110-230	70-175	50-135	110-230	70-175	50-135	85-180	65-160	45-135	
	SS - Austenitic	180-330	130-290	100-240	80-190	100-240	70-175	55-130	100-240	70-175	55-130	85-170	65-145	45-125	
	SS - Austenitic-ferritic (Duplex)	230-260	190-220	150-185	120-145	150-190	120-150	90-110	150-190	120-150	90-110	130-160	110-135	85-105	
	Material	Grade fn (mm/r) HB (brinell)	PVD Coating												
			← Wear Resistance						Toughness →						
			NX9710			NX9720									
			0.2	0.4	0.6	0.2	0.4	0.6							
	SS - Ferritic/martensitic	200-330	128-230	120-220	115-215	133-235	130-225	120-220							
	SS - Austenitic	180-330	124-225	115-215	105-205	129-223	125-220	115-215							
	SS - Austenitic-ferritic (Duplex)	230-260	121-212	110-205	100-195	125-216	115-210	100-200							

ISO	Material	Grade fn (mm/r) HB (brinell)	CVD Coating									
			Wear Resistance ←						Toughness →			
			NX7505			NX3520			NX7540			
			0.2	0.4	0.6	0.2	0.4	0.6	0.2	0.4	0.6	
K	Marble cast iron	130-230	160-360	140-280	120-235	150-330	130-240	110-220	110-230	100-215	100-190	
	Grey cast iron	180-220	220-380	190-330	150-290	200-330	170-280	150-230	150-230	140-220	110-210	
	Nodular cast iron	160-380	150-280	135-265	120-220	140-250	125-230	110-220	125-220	115-205	105-185	

ISO	Material	Grade fn (mm/r) HB (brinell)	Uncoated	
			NX9010	
			0.15	0.8
N	Aluminium alloys	60-130	375-2400	40-240
	Cooper and cooper alloys	90-110	375-630	35-65

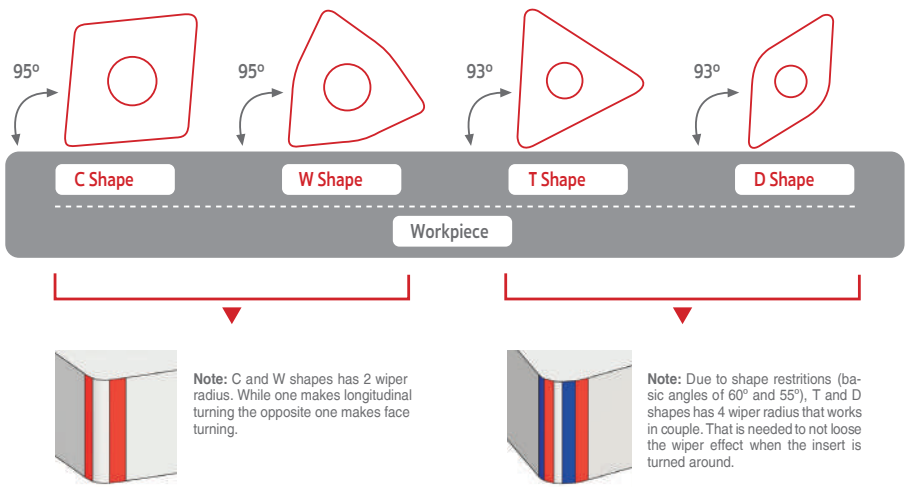
ISO	Material	Grade fn (mm/r) HB (brinell)	PVD Coating					
			Wear Resistance ←			Toughness →		
			NX9710			NX9720		
			0.1	0.3	0.5	0.1	0.3	0.5
S	Heat resistant super alloys (Iron base)	200-280	75-130	62-127	55-115	70-120	55-115	50-110
	Heat resistant super alloys (Nickel base)	250-320	55-95	40-90	33-85	35-80	27-75	23-70
	Heat resistant super alloys (Cobalt base)	200-320	55-95	40-90	33-85	35-80	27-75	23-70
	Titanium alloys (400<or<1050[MPa])	-	80-172	70-162	65-155	65-152	50-145	45-135

TURNING - Tooling technology

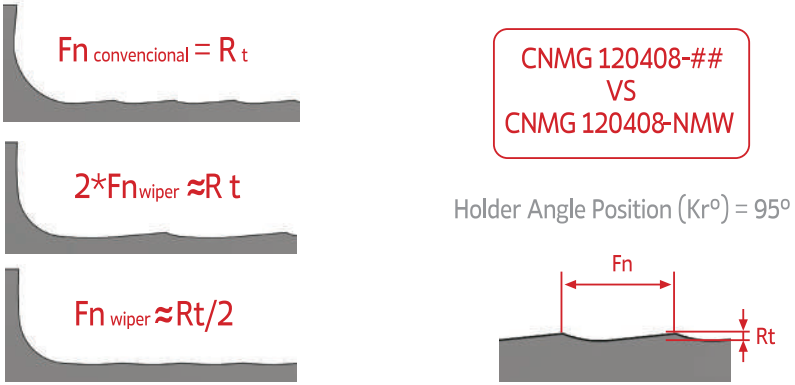
WIPER CONCEPT



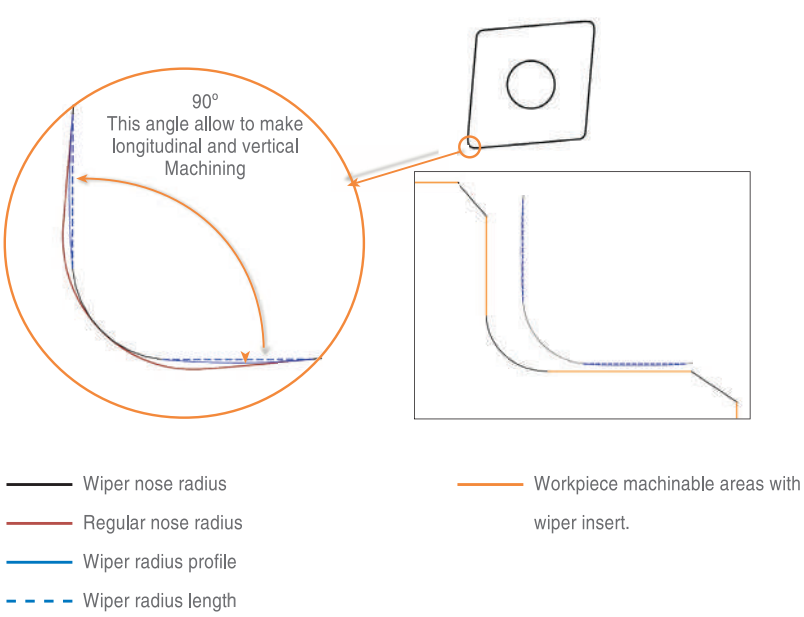
THE ANGLE POSITION (Kr°)



THE WIPER PURPOSE IS BASED ON PRODUCTIVITY:



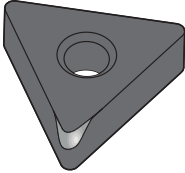
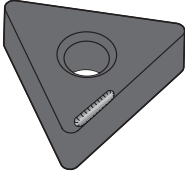
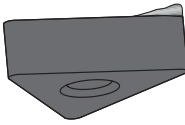
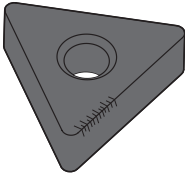
Example CNMG 120404-NMW with angle position of 95°



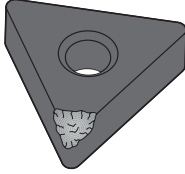
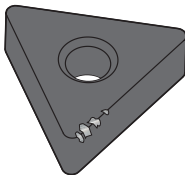
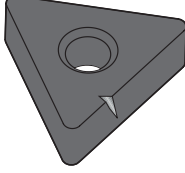
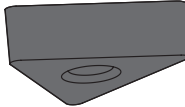
Note: wiper radius length must be parallel to machinable workpiece areas.

TURNING - Tooling technology



Problem	Possible Solution
Flank wear 	- Reduce the cutting speed (Vc). - Select a more wear-resistant grade (ex: P40 -> ... -> P10). - Select a toolholder or chipbreaker which allow a bigger relief angle. - Increase the rake angle. - Increase nose radius (Re). - Reduce honing edges.
Crater wear 	- Reduce the cutting speed (Vc). - Reduce the feed rate (Fn). - Select a more wear-resistant grade (ex: P40 -> ... -> P10). - Use coolant. - Increase the rake angle. - Increase nose radius (Re).
Built-up edge 	- Increase the cutting speed (Vc). - Reduce the feed rate (Fn). - Use water-insoluble coolant fluid. - Select a more easy-cutting chipbreaker. - Increase the rake angle. - Reduce honing edges. - Select grade with low tendency to adhesion.
Thermal cracks 	- Reduce the cutting speed (Vc). - Increase the feed rate (Fn). - Use more coolant and correct it volume/accuracy. - Reduce honing edges. - Select a tougher grade (ex: P10 -> ... -> P40). - Increase the rake angle.



Problem	Possible Solution
Breakage or too short tool life	- Step 1. Reduce the cutting conditions (first feed rate, then cutting depth). - Step 2. Look at the wear pattern on the insert and use the table below as a guideline for improvement.
Insert fracture 	- Reduce the feed rate (Fn). - Reduce the depth of cut (Ap). - Select a tougher grade (ex: P10 -> ... -> P40). - Use a more rigid toolholder. - Increase nose radius (Re). - Select a stronger chipbreaker. - Reduce the toolholder length. - Select larger shank size.
Edge chipping 	- Increase the cutting speed (Vc). - Reduce the feed rate (Fn). - Select a stronger chipbreaker. - Select a tougher grade (ex: P10 -> ... -> P40). - Reduce the rake angle. - Increase honing edges. - Reduce the toolholder length. - Select larger shank size.
Notch wear 	- Reduce the cutting speed (Vc). - Reduce the feed rate (Fn). - Select a tool with a smaller setting angle (Kr°). - Select a more wear-resistant grade (ex: P40 -> ... -> P10).
Plastic deformation 	- Reduce the cutting speed (Vc). - Reduce the feed rate (Fn). - Select a more wear-resistant grade (ex: P40 -> ... -> P10). - Use more coolant and correct it volume/accuracy. - Choose grade with better heat conductivity. - Increase the rake angle. - Increase nose radius (Re). - Increase relief angle.





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