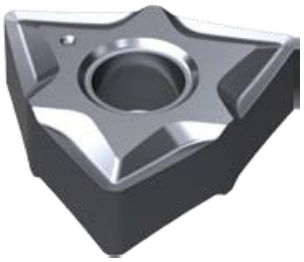
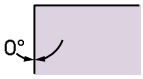
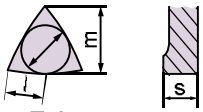


W N M P

Shape

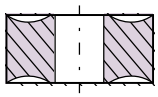


Clearance Angle



Tolerance

s ± 0.13
For l = 06, **d** ± 0.05 **m** ± 0.08
For l = 08, **d** ± 0.08 **m** ± 0.13



Fixing
Chip breaker

Insert Designation	Grade	l	s	r	Catalog Nr.
WNMP 060404 NN	**LT 1000**	6	4.76	0.4	T0001954
WNMP 060408 NN	**LT 1000**	6	4.76	0.8	T0001955
WNMP 080408 NN	**LT 1000**	8	4.76	0.8	T0001956

NN All purpose Chipbreaker

80° Trigon shape inserts with positive chipbreaker geometry. Generates lower cutting forces, suitable for High Temperature Alloys and Stainless Steel operations.

Application Guide

	Finishing	Medium	Roughing / Interrupted cut
WNMP 060404 NN	☺	😐	☹
WNMP 060408 NN	☺	☺	☹
WNMP 080408 NN	☺	☺	☹

☺ = Good
😐 = Acceptable
☹ = Not recommended

Finishing:
d.o.c. = 0.30 - 1.50 mm
fn = 0.08 - 0.20 mm/rev

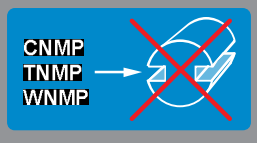
Medium:
d.o.c. = 0.70 - 4.50 mm
fn = 0.15 - 0.45 mm/rev

Roughing
d.o.c. = 3.00 - 7.00 mm
fn = 0.35 - 0.70 mm/rev

WNMP

Exotic Material
Verify
Cutting Conditions

Stainless Steel
Exotic Material
CNMP - TNMP - WNMP



Machine Recommendations Guide. Details on page 10

WNMP 080408 NN LT 10 & LT 1000

Material Group		Gr. N°	VDI Group	Material Examples*	Hardness	D.O.C. [mm]		Feed [mm/rev]		Amax [mm²]	V_c [m/min]		Optimal cutting conditions		
						min	max	min	max		min	max	D.O.C.	Feed	V_c
Steel	Non-alloyed	1	1	C35, Ck45, 1020, 1045, 1060, 28Mn6	125 HB	0.5	3.5	0.21	0.50	1.80	180	330	2.4	0.35	240
			2		190 HB		3.5		0.50	1.80		280			220
			3		250 HB		3.5		0.45	1.50		250			200
	Low alloyed	2	6	42CrMo4, St50, Ck60, 4140, 4340, 100Cr6	180 HB	0.5	3.5	0.21	0.45	1.20	120	280	2.4	0.32	200
			4,6		230 HB		2.8	0.21	0.45	1.20		250		0.32	180
			5,7		280 HB		2.8	0.18	0.40	1.20		210		0.30	150
			8		350 HB		2.5	0.18	0.40	1.00		180		0.30	130
	High alloyed	3	10	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	0.5	2.8	0.18	0.40	1.20	70	190	2.0	0.30	140
			10		280 HB		2.8		0.40	1.20		150		0.30	120
			11		320 HB		2.1		0.35	0.80		130		0.28	100
			11		350 HB		2.1		0.35	0.80		110		0.28	90
Stainless Steel	Austenitic	4	14	304, 316, X5CrNi18-9	180 HB	0.5	3.5	0.20	0.40	1.20	170	270	2.4	0.25	190
			14		240 HB		3.5		0.40	1.00	160	220		0.22	170
	Duplex	5	14	X2CrNiN23-4, S31500	290 HB	0.5	2.8	0.18	0.35	0.80	80	150	2.0	0.28	100
			14		310 HB		2.8		0.35		70	140			90
	Ferritic & Martensitic	6	12	410, X6Cr17, 17-4 PH, 430	200 HB	0.5	3.5	0.22	0.40	1.00	170	250	2.4	0.32	190
			13		42 HRc		2.8		0.40		120	190	2.0		130
Cast Iron	Grey	7	15	GG20, GG40, EN-GJL-250, No30B	150 HB	0.5	3.5	0.15	0.60	2.00	170	250	2.4	0.35	200
			15		200 HB		3.5		0.60	1.80	160	230			180
			16		250 HB		3.5		0.55	1.80	150	210			160
	Malleable & Nodular	8	17,19	GGG40, GGG70, 50005	150 HB	0.5	3.5	0.15	0.50	1.50	120	250	2.4	0.30	180
			17,19		200 HB		3.5		0.50	1.30		230			160
			18,20		250 HB		3.5		0.50	1.20		190			140
High Temp.Alloys	Fe, Ni & Co based	9	31,32	Incoloy 800	240 HB	0.5	2.1	0.20	0.35	0.70	25	45	1.6	0.28	32
			33	Inconel 700	250 HB		2.1		0.35		25	45			30
			34	Stellite 21	350 HB		2.1		0.35		23	40			28
	Ti based	10	36	TiAl6V4	-	0.5	2.8	0.20	0.40	0.80	45	65	1.6	0.33	55
			37	T40	-		2.1		0.35	0.70	35	55		0.30	45
Hardened Mat.	Steel	11	38	X100CrMo13, 440C, G-X260NiCr42	45 HRc	0.5	1.8	0.11	0.30	0.60	50	100	1.6	0.25	80
			38		50 HRc		1.5		0.25	0.40	40	90	1.2	0.20	70
			38		55 HRc		1.5		0.20	0.30	40	80	0.8	0.18	60
	Chilled Cast Iron		40	Ni-Hard 2	400 HB	0.5	1.5	0.11	0.25	0.40	40	60	1.2	0.18	50
	White Cast Iron		41	G-X300CrMo15	55 HRc	0.5	1.5	0.11	0.20	0.30	30	50	0.8	0.15	40
NF	Al (>8%Si)	12	25	AlSi12	130 HB	0.5	4.2	0.20	0.60	1.80	200	400	2.4	0.40	280