

Chapter Composition of TAC Inserts

- ◆ Each page of this chapter is composed so that you can select an appropriate insert for your machining operation.
- ◆ TAC inserts for turning are arranged by shape as follows: C (80°) → D (55°) → S (90°) → T (60°) → W (80°) → V (35°) → Y (25°) → R (360°) → Other shapes
- ◆ In the same shape, inserts are arranged in order of negative to positive. In the negative/positive inserts, they are arranged in order of “with hole” to “without hole” respectively.
- ◆ Chipbreaker types are arranged in order of precision finishing, medium finishing, medium cutting, and heavy cutting or according to the degree of the feed or depth of cut to be applied. No chipbreaker inserts are arranged on the last page of each insert shape

Insert shape

Title name of the chapter

Indicates negative or positive.

Indicates insert and mounting hole sizes.

TAC Inserts, Negative

Rhombic, with hole

80° Negative

CN

CNMG 12 04 04 -

Cutting edge length (L) Thickness (s) Corner radius (R) Chipbreaker

2

Main application

Chipbreaker symbol

Insert grades

Coloured columns indicate applicable material group according to ISO.

P M K N S H

Steel Stainless Cast Iron Non-ferrous Superalloys Heat-treated steels

Applicable TAC toolholders

Cat. No. of TAC insert

Symbols of stock status

● Stocked items
▲ Discontinued items

2-42

Guideline for applicable range of feed and depth of cut

Reference pages of relating items

Grades (1-1)
TAC inserts Selection guide (2-2)
Relating pages
TAC toolholders (4-1)
TAC tooling toolholders (5-1)
Technical reference (15-1)

Ordering information

- When ordering, please specify Cat. No., grade and quantity.

Example: CNMG120408-TM T9115 10 pieces.

- Standard packing quantity is 10 pieces.

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Guidance

■ TAC insert designation system	2-2
■ Selection system by work material	2-4
■ Chipbreaker overview	2-28
■ TAC inserts navigation system	2-41

2 TAC Inserts

Products

■ TAC inserts, Negative type

Coated, cermet, uncoated and ceramic inserts

● CN□□ 80° Rhombic with hole	2-42	● WN□□ 80° Trigon with hole	2-80
● CN□□ 80° Rhombic without hole	2-51	● VN□□ 35° Rhombic with hole	2-87
● DN□□ 55° Rhombic with hole	2-52	● VNGD 35° Rhombic without hole	2-90
● DN□□ 55° Rhombic without hole	2-60	● YN□□ 25° Polygon with hole	2-91
● SN□□ 90° Square with hole	2-61	● RN□□ Round with hole	2-92
● SN□□ 90° Square without hole	2-69	● RN□□ Round without hole	2-93
● TN□□ 60° Triangular with hole	2-70	● KNMX 55° Parallelogram without hole	2-94
● TN□□ 60° Triangular without hole	2-79	● HNGD 120° Hexagon without hole	2-95

■ TAC inserts, Positive type

Coated, cermet, uncoated and ceramic inserts

● CC□□ 80° Rhombic with hole	2-96	● VB□□ 35° Rhombic with hole	2-133
● CP□□ 80° Rhombic with hole	2-102	● VC□□ 35° Rhombic with hole	2-135
● DC□□ 55° Rhombic with hole ...	2-105	● VP□□ 35° Rhombic with hole	2-137
● EP□□ 75° Rhombic with hole	2-111	● YWMT 25° Rhombic with hole	2-139
● SC□□ 90° Square with hole ...	2-112	● RC□□ Round with hole	2-140
● SP□□ 90° Square with hole ...	2-114	● RC□□ Round without hole	2-141
● SP□□ 90° Square without hole	2-116	● RT□□ Round without hole	2-142
● TC□□ 60° Triangular with hole ...	2-118		
● TP□□ 60° Triangular with hole ...	2-123		
● TP□□ 60° Triangular without hole	2-130		
● WB□□ 80° Trigon with hole	2-132		
● WP□□ 80° Trigon			

(Dedicated inserts for TurnFeed) with hole · 2-132

■ TAC insert, Special shapes

Coated, cermet, uncoated and ceramic inserts

● JXF□ for front turning	2-144
● JXR□ for reverse turning	2-144
● JXB□ for back turning	2-145
● JTB□ for back turning	2-145
● J10E□ for back turning	2-146
● 10E□ for back turning	2-146

Designation System for TAC Inserts

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TAC Inserts

● Conforms to “Indexable Inserts for Cutting Tools - Designation” (JIS B4120-1998, and ISO 1832 / AM1-1998)

Symbol	Shape	Nose angle (degree)	Figure
H	Hexagonal	120°	
O	Octagonal	135°	
P	Pentagonal	108°	
S	Square	90°	
T	Triangular	60°	
C	Rhombic	80°	
D		55°	
E		75°	
F		50°	
M		86°	
V		35°	
Y	Y-shape (Tungaloy's symbol)	25°	
W	Trigon	80°	
L	Rectangular	90°	
A	Parallelogram	85°	
B		82°	
K		55°	
R	Round	-	

1 Shape

Notes : With respect to the nose angles of rhombic and parallelogram shaped inserts, use the smaller angle respectively.

Symbol	Relief angle
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	Others
X	Special

2 Relief angle

Symbol (class)	Tolerance (mm)		
	Corner height (m)	Thickness (s)	I. C. dia. (ød)
A	±0.005	±0.025	±0.025
F	±0.005	±0.025	±0.013
C	±0.013	±0.025	±0.025
H	±0.013	±0.025	±0.013
E	±0.025	±0.025	±0.025
G	±0.025	±0.13	±0.025
J	±0.005	±0.025	±0.005 ~ ±0.13
K	±0.013	±0.025	±0.05 ~ ±0.13
L	±0.025	±0.025	±0.05 ~ ±0.13
M	±0.08 ~ ±0.18	±0.13	±0.05 ~ ±0.13
N	±0.08 ~ ±0.18	±0.025	±0.05 ~ ±0.13
U	±0.13 ~ ±0.38	±0.13	±0.08 ~ ±0.25

3 Accuracy

[Example]

[Example]

4 Groove and hole				
Symbol	Hole	Shape of hole	Chip-breaker	Shape
N	Without	-	Without	
R			Single-sided	
F	With	Cylindrical hole	Double-sided	
A			Without	
M			Single-sided	
G			Double-sided	
W			Without	
T			Single-sided	
Q			Without	
U			Double-sided	
B			Without	
H			Single-sided	
C	-	Partly cylindrical hole, double-side 70° ~ 90° Counter sink	Without	
J			Double-sided	
X	-	-	-	-

5 Cutting edge length																
* (R)		S		C		W		T		D		V		K		I. C. dia. (mm)
Symbol	Length	Symbol	Length	Symbol	Length	Symbol	Length	Symbol	Length	Symbol	Length	Symbol	Length	Symbol	Length	
		03	3.97	03	4.0			06	6.9	04	4.8					3.97
		04	4.76	04	4.8			08	8.2	05	5.8	08	8.3			4.76
*05	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
		05	5.56	05	5.6	03	3.8	09	9.6	06	6.8					5.56
*06	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
		06	6.35	06	6.5	04	4.3	11	11	07	7.8	11	11.2			6.35
		07	7.94	08	8.1	05	5.4	13	13.8	09	9.7					7.94
*08	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
09	9.525	09	9.525	09	9.7	06	6.5	16	16.5	11	11.6	16	16.6	16	19.7	9.525
*10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
*12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
12	12.7	12	12.7	12	12.9	08	8.7	22	22	15	15.5	22	22.1			12.7
15	15.875	15	15.875	16	16.1	10	10.9	27	27.5	19	19.4					15.875
*16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
19	19.05	19	19.05	19	19.3	13	13	33	33	23	23.3					19.05
*20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
		22	22.225	22	22.6			38	38.5	27	27.1					22.225
*25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
25	25.4	25	25.4	25	25.8			44	44	31	31					25.4
31	31.75	31	31.75	32	32.2			55	55	38	38.8					31.75
*32	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32

*When M0 is included in the Cat. No., the inscribed-circle diameter is metric size.

● Detailed accuracy for J,K,L,M,N and U classes

For inserts with nose corner angles larger than 55°

Unit: mm

Inscribed circle	Tolerance on inscribed circle dia. (ød)		Tolerance on corner height (m)		Insert shapes applied
	J,K,L,M,N (class)	U (class)	J,K,L,M,N (class)	U (class)	
6.35	±0.05	±0.08	±0.08	±0.13	H W
9.525					O R
12.7	±0.08	±0.13	±0.13	±0.2	P
15.875	±0.1	±0.18	±0.15	±0.27	S
19.05					T
25.4	±0.13	±0.25	±0.18	±0.38	C,E,M
31.75	±0.15	±0.25	±0.2	±0.38	
32					

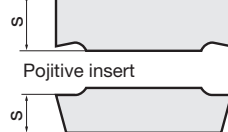
For M-type inserts with nose corner angles of 55° (Shape: D), 35° (Shape: V), 25° (Shape: Y)

Unit: mm

Inscribed circle	Tolerance on inscribed circle dia. (ød)	Tolerance on corner height (m)	Insert shapes applied
6.35	±0.05	±0.11	D
9.525			
12.7	±0.08	±0.15	
15.875	±0.1	±0.18	
19.05			
6.35	±0.05	±0.16	V
9.525			Y

Note on insert thickness
With regard to the insert thickness for chipbreaker inserts, the thickness (s) drawn in the outlined insert shapes on pages XX to XX is defined as "s" (height from the bottom face to the cutting edge) shown in the figure at right.

Negative insert



Positive insert

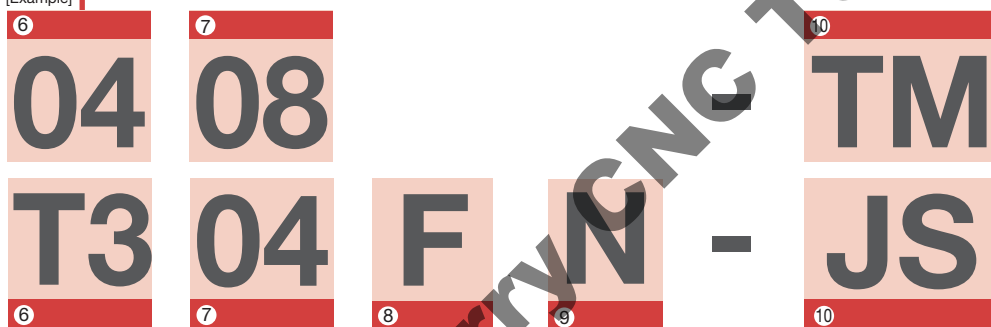


Symbol	Thickness (mm)
X1	1.39
01	1.59
T1	1.79
02	2.38
T2	2.78
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52



6 Thickness

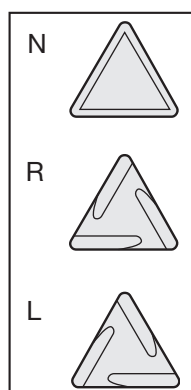
[Example]



7 Corner radius	
Symbol	Corner radius r_ε (mm)
00	0.03
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
28	2.8
32	3.2

8 Symbols of major cutting edge		
Symbol	Condition of cutting edge	Shape
F	Sharp edge	
E	Honed rounded edge	
W.T	Honed chamfered edge	
S	Combination honed edge	

9 Hand of insert	
Symbol	Hand
R	Right
L	Left
N	Neutral



10 Chipbreakers			
Symbol	Applications	Symbol	Applications
01(TF)	Precision finishing (Basic selection)	C	Finishing (Right and left hand)
TS	Finishing (Basic selection)	D	Finishing (Right and left hand)
TSF	Finishing (Basic selection)	P	Finishing of Aluminium alloys
TM	Medium cutting (Basic selection)	W	Finishing (Angular type)
THS	Medium to heavy cutting (Basic selection)	PSF	Finishing (Positive type)
TRS	Medium to heavy cutting	PSS	Finishing to light cutting (Positive insert)
TUS	Heavy cutting	PS	Finishing to medium cutting (Positive type Basic selection)
DM	Medium cutting	PM	Medium cutting (Positive type)
HMM	Medium cutting	AL	Finishing to medium cutting of aluminium alloys
SF	Finishing of stainless steels	RS	Medium cutting (For round inserts)
SS	Finishing of stainless and mild steels	W□□	Finishing (Angular type)
SM	Medium cutting of stainless steels	H□□	Finishing (Parallel)
S	Medium cutting of stainless steels	11	Finishing
SH	Medium to heavy cutting of stainless steels	61	Small depth of cut and high feed (For round inserts)
SA	For heat-resisting alloys and stainless steels	S1	Finishing (For KNMX type)
ZF	Finishing and copying	J08, J10	For small lathes
ZM	Finishing to medium cutting and copying	JS	For small lathes
NS	Finishing and copying	JRP	For small lathes
NM	Finish to medium cutting and copying	JPP	For small lathes
AS	Small depth of cut and high feed	JSP	For small lathes
AFW	Small depth of cut and high feed (Wiper type inserts)		
ASW	Small depth of cut and high feed (Wiper type inserts)		
CB	Medium cutting		
CM	Medium cutting of cast irons		
All-round	Medium cutting		
A	Finishing (Right and left hand)		
B	Finishing (Right and left hand)		

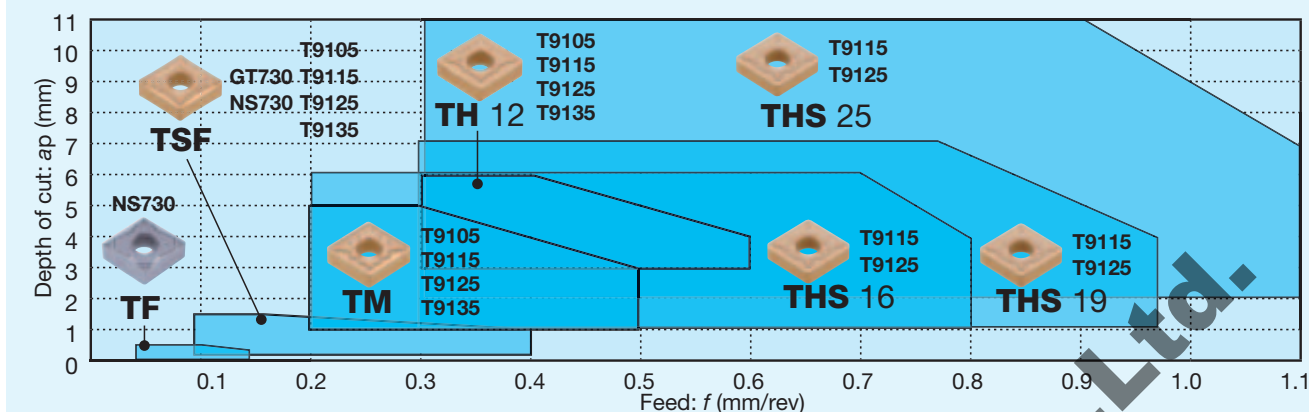
Basic Chipbreakers Negative Inserts

P Steel

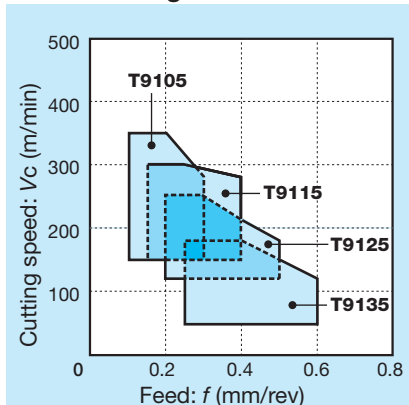
Chipbreaker System for Turning (Negative Inserts)

TAC Inserts

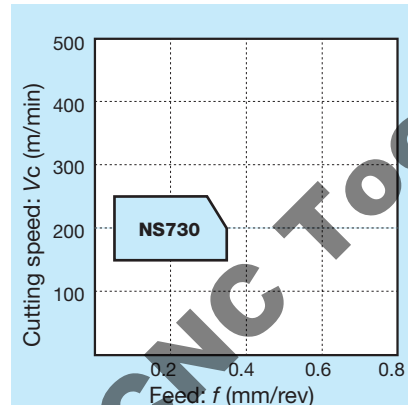
2



CVD coated grades



Coated cermets / Cermets



Chipbreaker	Appearance	Features
TF		The sharp cutting edge and raised projection near corner contribute to excellent chip control at very small depths of cut and low feeds. Economical M-class tolerance and low cost.
TSF		First choice chipbreaker for finishing steels. The dimple structure decreases the contact area between the insert surface and chips, resulting in significant reduction of heat occurrence.

Chipbreaker	Appearance	Features
TM		General purpose chipbreaker used for medium cutting. Unique chipbreaker geometry with sharp edges and large rake angle assures free cutting action in a wide range of cutting conditions.
TH		Double-sided 3-dimensional chipbreaker with a wide land and broad groove used for medium to heavy cutting including interrupted and unfavorable surface conditions. Also performs well in high feed machining.
THS		Excellent chip control in a broad range of depth of cut. Strong cutting edge being suitable for interrupted and high feed operations.

Standard Cutting Conditions

Operation	Work condition	Chip-breaker	Grade	Depth of cut a_p (mm)	Feed f (mm/rev)	Cutting speed: V_c (m/min)		
						Low carbon steels, Alloy steels	Medium carbon steels, Alloy steels	High carbon steels, Alloy steels
Precision finishing	Light interrupted	TF	NS730	0.05 - 0.5	0.03 - 0.15	150 - 250	100 - 250	100 - 200
Finishing	Light interrupted	TSF	GT730	0.2 - 1.5	0.08 - 0.4	150 - 300	80 - 250	80 - 200
	Heavy interrupted		T9125			120 - 250	80 - 200	80 - 150
Medium cutting	Continuous to heavy interrupted	TM	T9105	1.0 - 5.0	0.2 - 0.5	180 - 350	180 - 350	180 - 300
			T9115			150 - 300	150 - 300	120 - 250
			T9125			120 - 250	80 - 200	80 - 150
			T9135			50 - 180	50 - 150	50 - 120
Medium to heavy cutting	Continuous to light interrupted	TH	T9105	3.0 - 6.0	0.3 - 0.6	180 - 350	180 - 350	180 - 300
			T9115			150 - 300	150 - 300	120 - 250
			T9125			120 - 250	80 - 200	80 - 150
			T9135			50 - 180	50 - 150	50 - 120

Low carbon steels, Alloy steels: C10E, 15CrMo5, 20Cr4H, etc. Medium carbon steels, Alloy steels: C45, 42CrMo4, etc.
High carbon steels, Alloy steels: 35CrNiMo6, etc.

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Selection System **Negative Inserts**

Continuous	Light interrupted	Heavy interrupted

2

TAC Inserts

P Steel

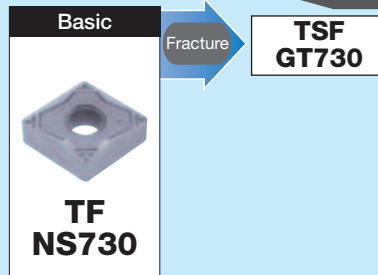
Steel

Precision finishing [$a_p = \sim 0.5 \text{ mm}$]

Continuous

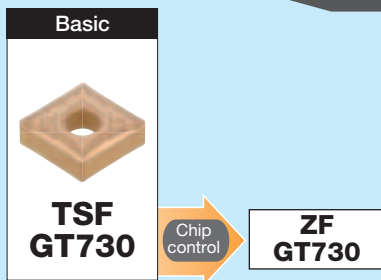


Light interrupted

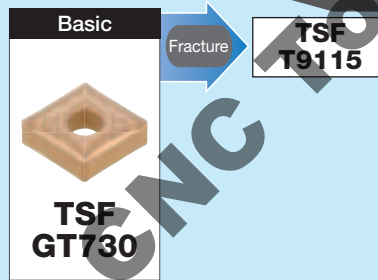


Finishing [$a_p = 0.3 \sim 1.5 \text{ mm}$]

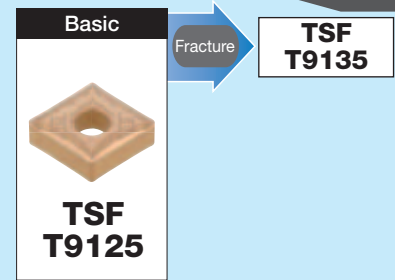
Continuous



Light interrupted



Heavy interrupted

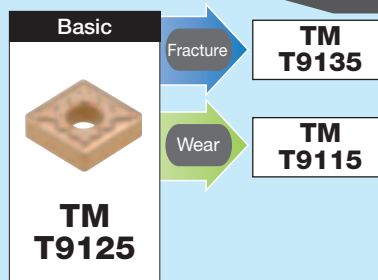


Medium cutting [$a_p = 1.0 \sim 4.0 \text{ mm}$]

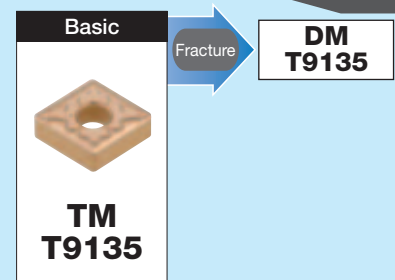
Continuous



Light interrupted

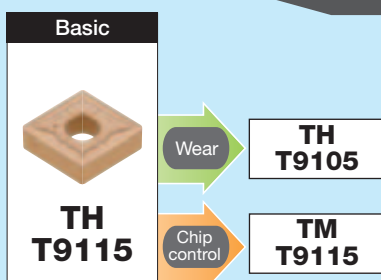


Heavy interrupted

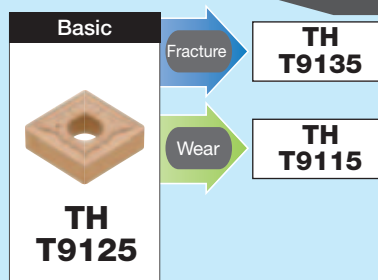


Medium to heavy cutting [$a_p = 3.0 \sim 6.0 \text{ mm}$]

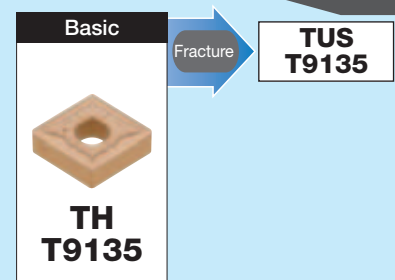
Continuous



Light interrupted



Heavy interrupted



Basic Chipbreakers

Negative Inserts

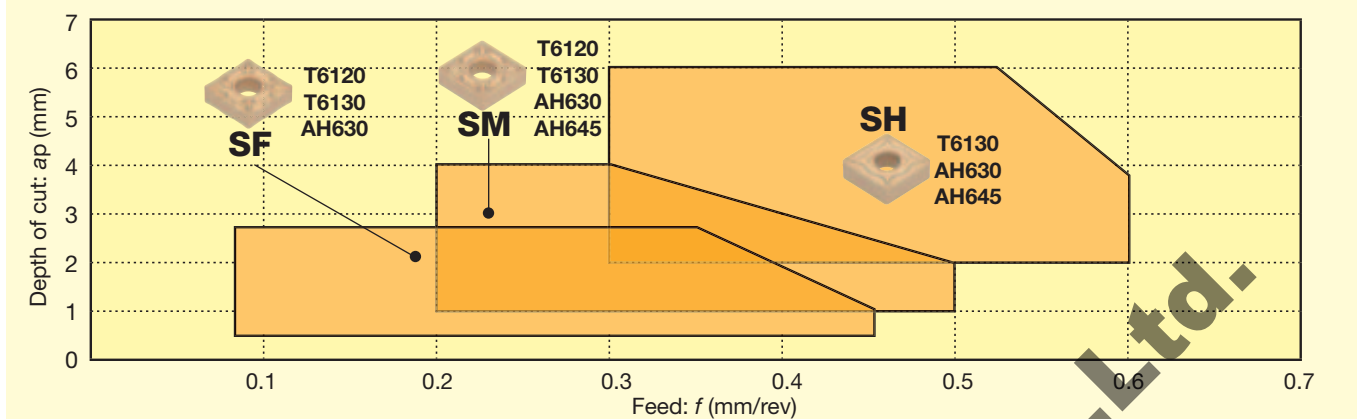
M
Stainless

Stainless Steel

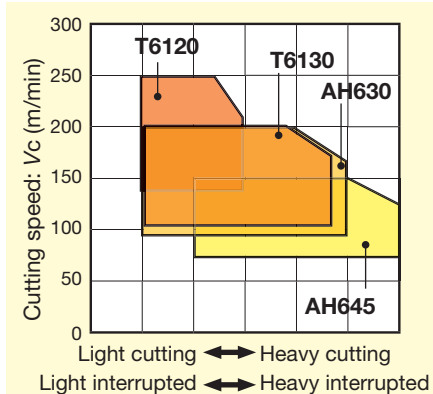
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TAC Inserts

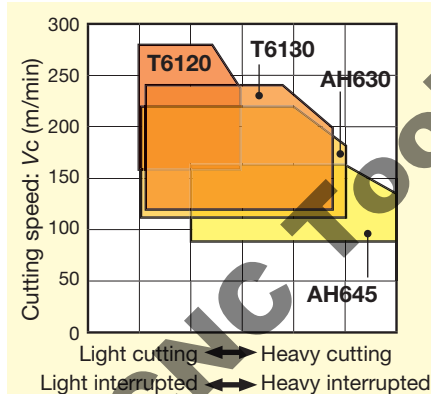
Chipbreaker System for Turning



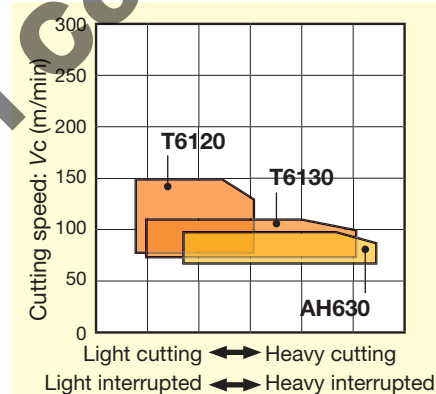
Austenitic stainless steel



Ferritic / martensite stainless steel



Precipitation hardened stainless steel



Chipbreaker	Appearance	Features
SF		Excellent chip control when finish cutting. Outstanding chip control when high feed turning at small depth of cut.
SH		Suitable for roughing operations and interrupted machining with tough cutting edges.

Chipbreaker	Appearance	Features
SM		Applicable to a wide range of cutting condition with sharp edge. Recommended chipbreaker for stainless steel turning.

Standard Cutting Conditions

Operation	Work condition	Chipbreaker	Grade	Depth of cut a_p (mm)	Feed f (mm/rev)	Cutting speed V_c (m/min)
Finishing	Continuous	SF	T6120	0.5 - 2.5	0.08 - 0.45	140 - 240
	Continuous to light interrupted		T6130			100 - 200
	Heavy interrupted		AH630			90 - 190
Medium cutting	Continuous	SM	T6120	1.0 - 4.0	0.2 - 0.5	140 - 240
	Continuous to light interrupted		T6130			100 - 200
	Light interrupted		AH630			90 - 190
	Heavy interrupted		AH645			70 - 150
Medium to heavy cutting	Continuous to light interrupted	SH	T6130	2.0 - 6.0	0.3 - 0.6	100 - 200
	Light interrupted		AH630			90 - 190
	Heavy interrupted		AH645			70 - 150

Stainless steels: X5CrNi18-10, X5CrNiMo17-12-2, etc.

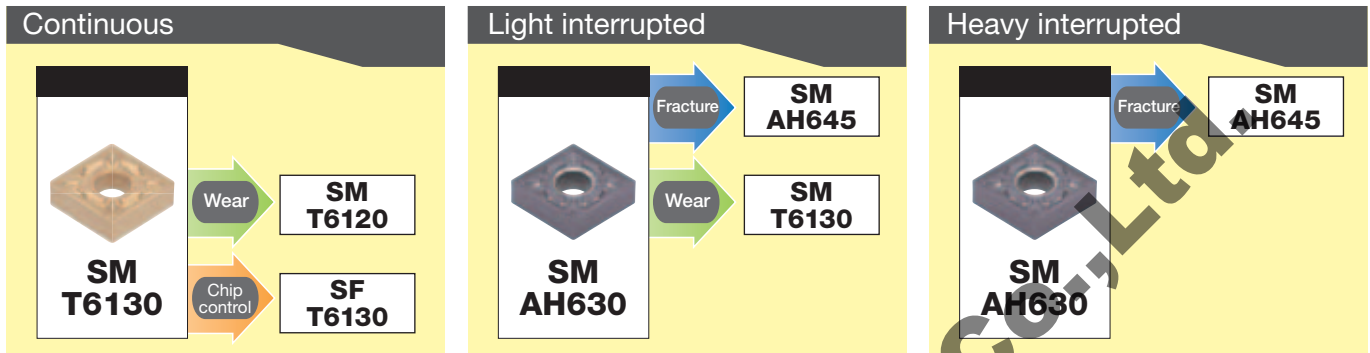
Selection System **Negative Inserts**

Continuous	Light interrupted	Heavy interrupted

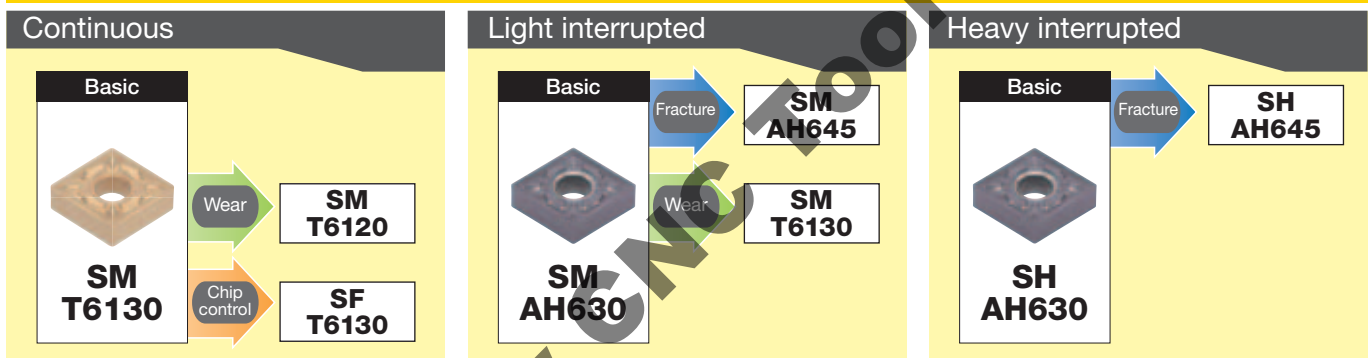
M Stainless Steel

Stainless

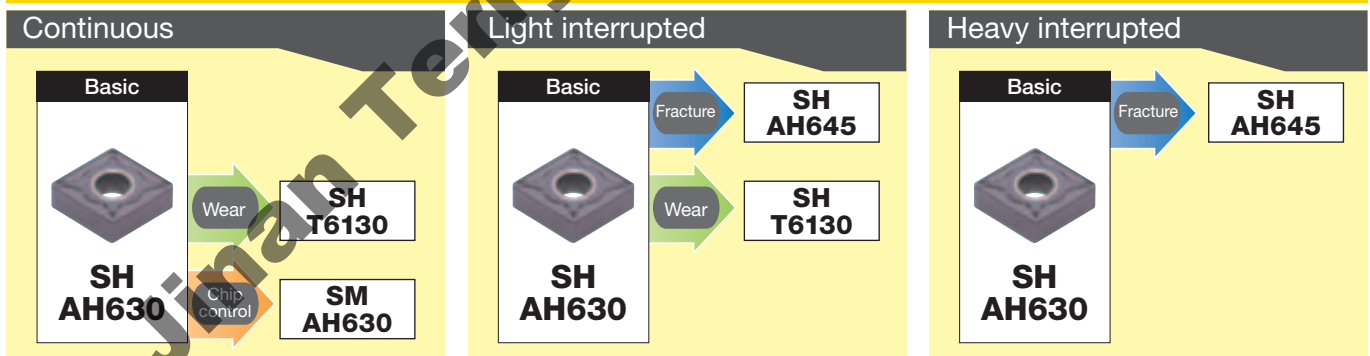
Finishing [$a_p = 0.5 \sim 1.5 \text{ mm}$]



Medium cutting [$a_p = 1.0 \sim 4.0 \text{ mm}$]



Medium to heavy cutting [$a_p = 2.0 \sim 6.0 \text{ mm}$]



2

TAC Inserts

Basic Chipbreakers

Negative Inserts

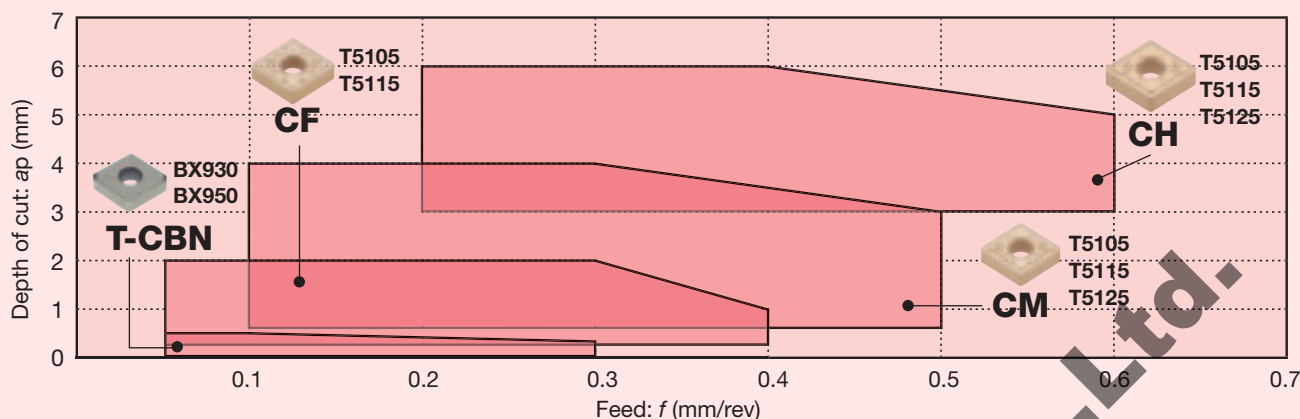


Cast Iron

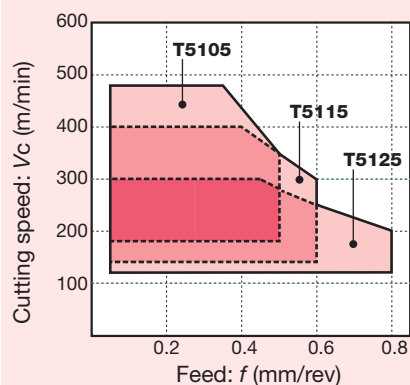
Chipbreaker System for Turning (Negative Inserts)

2

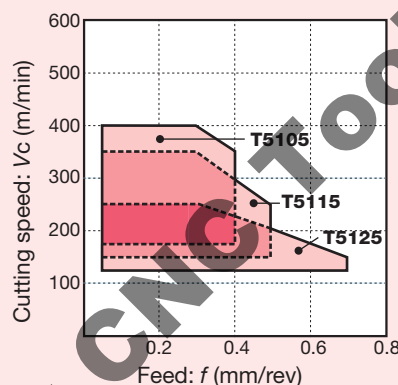
TAC Inserts



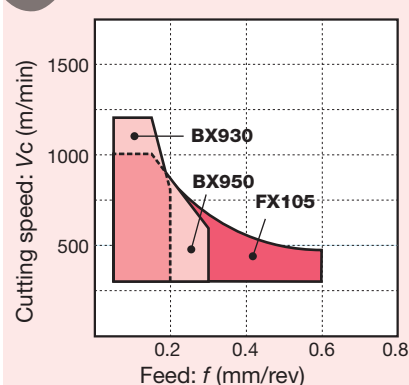
Grey cast irons



Ductile cast irons



High speed cutting: for grey cast irons



Chip-breaker	Appearance	Features
No chip-breaker (T-CBN)		T-CBN inserts. Performs well in high speed finishing of cast iron.
CF		Low cutting force chipbreaker for cast iron. Combined with an arc-shaped concave and a high rake (substantially 20° rake angle), allows drastically reducing cutting forces and suppressing the deformation of thin walled components and burr occurrence.

Chip-breaker	Appearance	Features
CM		First choice chipbreaker for cast iron. An all around chipbreaker, which is applicable for a wide range of cutting conditions from continuous to interrupted machining with the positive land and wide chip pocket
CH		Chipbreaker with reinforced cutting-edge for cast iron. Utilizing the land support and negative land design, features stable insert seating and high cutting edge strength even in heavy cutting.

Standard Cutting Conditions

Operation	Work condition	Chip-breaker	Grade	Depth of cut ap (mm)	Feed f (mm/rev)	Cutting speed: Vc (m/min)	
						Grey cast irons	Ductile cast irons
High speed cutting	Continuous	Without	BX930	0.05 - 0.5	0.05 - 0.2	300 - 1200	100 - 500
	Light interrupted		BX950			300 - 1000	100 - 300
	Continuous		FX105			300 - 1000	-
Finishing	Continuous	CF	T5105	0.5 - 2.0	0.05 - 0.4	180 - 480	180 - 400
	Light interrupted		T5115			140 - 400	140 - 370
	Continuous		T5105			180 - 480	180 - 400
Medium cutting	Light interrupted	CM	T5115	1.0 - 4.0	0.1 - 0.5	140 - 400	140 - 370
	Heavy interrupted		T5125			120 - 300	120 - 250
	Continuous		T5105			180 - 480	180 - 400
Heavy cutting	Light interrupted	CH	T5115	3.0 - 6.0	0.1 - 0.6	140 - 400	140 - 370
	Heavy interrupted		T5125			120 - 300	120 - 250
	Continuous		T5105			180 - 480	180 - 400

Grey cast irons: GG25 etc. Ductile cast irons: GGG45 etc.

Selection System Negative Inserts



Cast Iron

Continuous	Light interrupted	Heavy interrupted

2

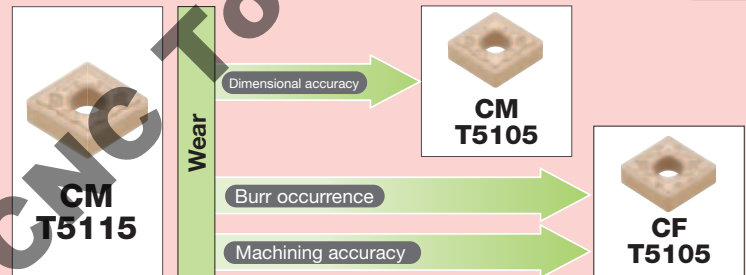
TAC Inserts

For high speed machining

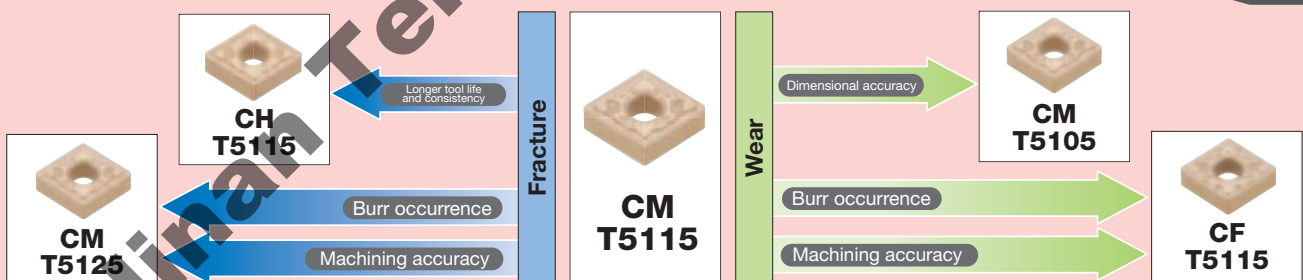
Continuous	Light interrupted
T-CBN BX930	T-CBN BX950

Finishing [$a_p = 0.5 \sim 2.0 \text{ mm}$], **Medium cutting** [$a_p = 1.0 \sim 5.0 \text{ mm}$], **Medium to heavy cutting** [$a_p = 3.0 \sim 6.0 \text{ mm}$]

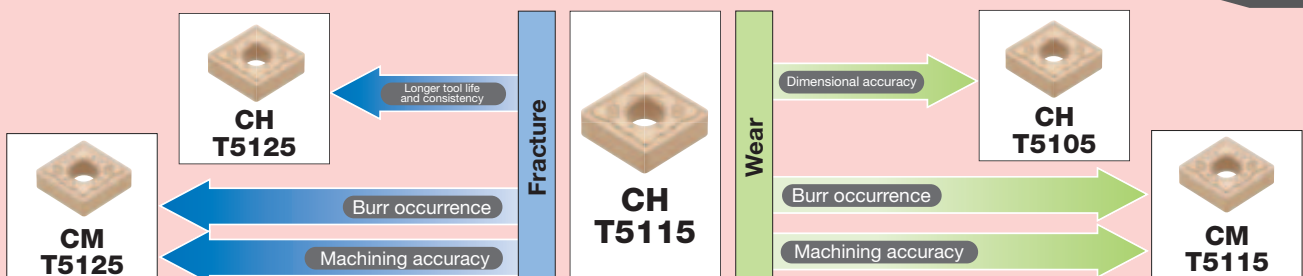
Continuous



Light interrupted



Heavy interrupted



Basic Chipbreakers Negative Inserts

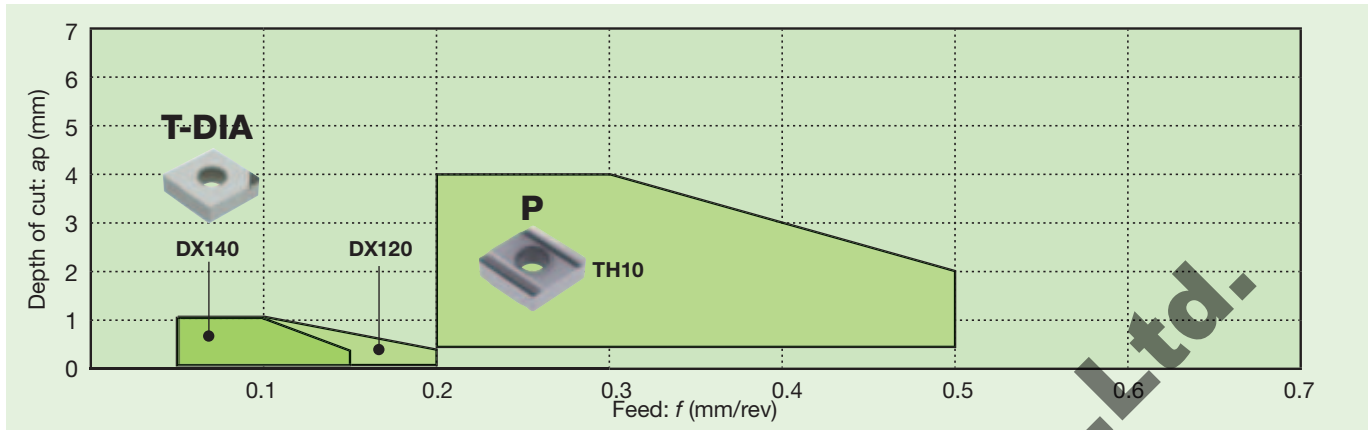


Non-ferrous Metal

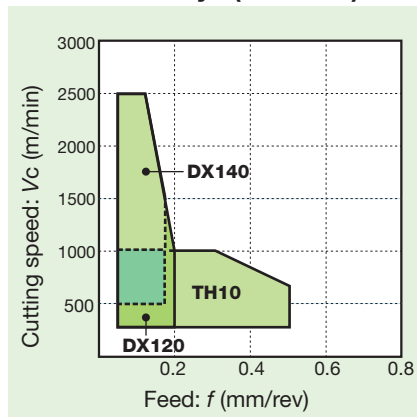
Chipbreaker System for Turning (Negative Inserts)

2

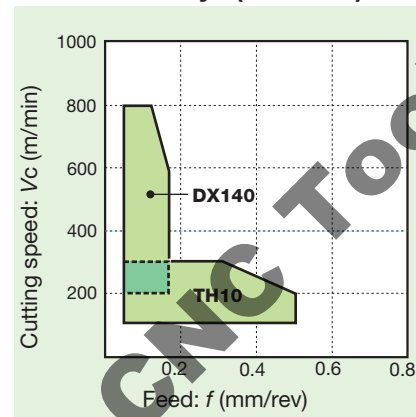
TAC Inserts



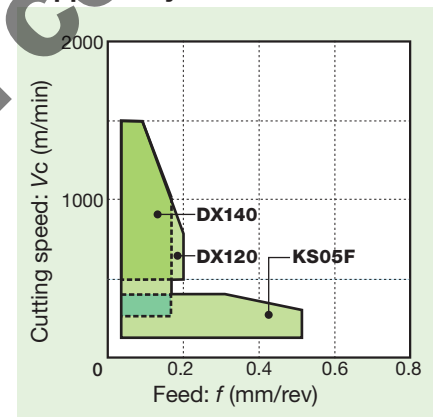
Aluminium alloys (Si < 13%)



Aluminium alloys (Si ≥ 13%)



Copper alloys



Chip-breaker	Appearance	Features
No chip-breaker (T-DIA)		Performs well in high speed finishing of non-ferrous materials.
P		Excels in sharpness of cutting edges and effectively used for machining non-ferrous metals such as aluminium alloys and copper alloys.

Chip-breaker	Appearance	Features
With chip-breaker (T-DIA)		The wide chipbreaker width contributes to excellent chip control.

Standard Cutting Conditions

Operation	Work condition	Chip-breaker	Grade	Depth of cut ap (mm)	Feed f (mm/rev)	Cutting speed: Vc (m/min)		
						Aluminium alloys (Si < 12%)	Aluminium alloys (Si > 12%)	Copper alloys
Precision finishing	Continuous	Without	DX140	0.05 - 1.0	0.05 - 0.15	500 - 2500	400 - 800	500 - 1500
	Light interrupted	with	DX120	0.05 - 1.0	0.05 - 0.20	300 - 2500	-	500 - 1500
Finishing	Continuous	Without	DX140	0.05 - 1.0	0.05 - 0.15	500 - 2500	400 - 800	500 - 1500
	Light interrupted					300 - 1800	400 - 600	400 - 1200
	Heavy interrupted	P	TH10	0.5 - 4.0	0.2 - 0.5	100 - 500	100 - 200	100 - 200
Medium cutting	Continuous	P	TH10	0.5 - 4.0	0.2 - 0.5	100 - 1000	100 - 300	100 - 300
	Light interrupted					100 - 800	100 - 200	100 - 200
	Heavy interrupted					100 - 500	100 - 200	100 - 200

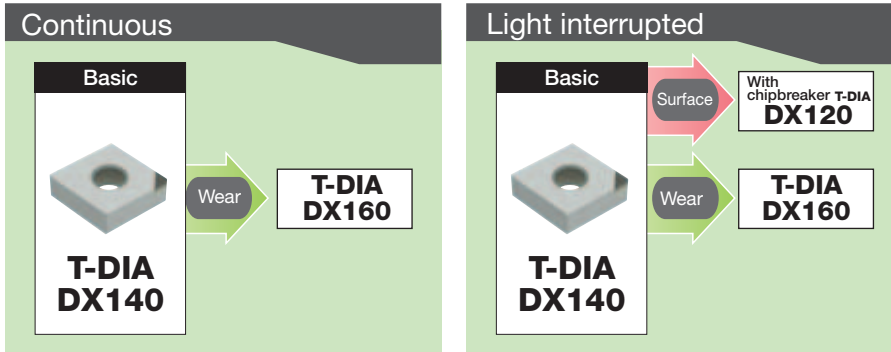
Selection System **Negative Inserts**

Continuous	Light interrupted	Heavy interrupted

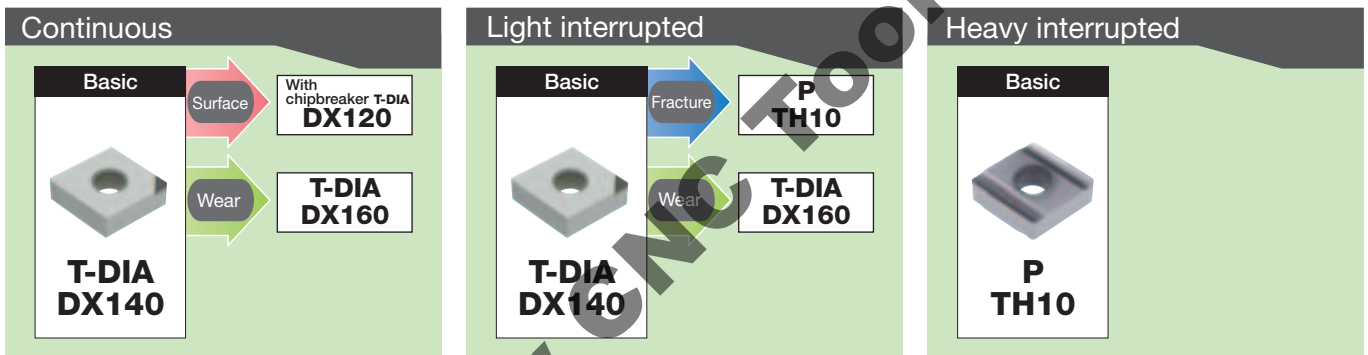
N Non-ferrous Metal

Non-ferrous

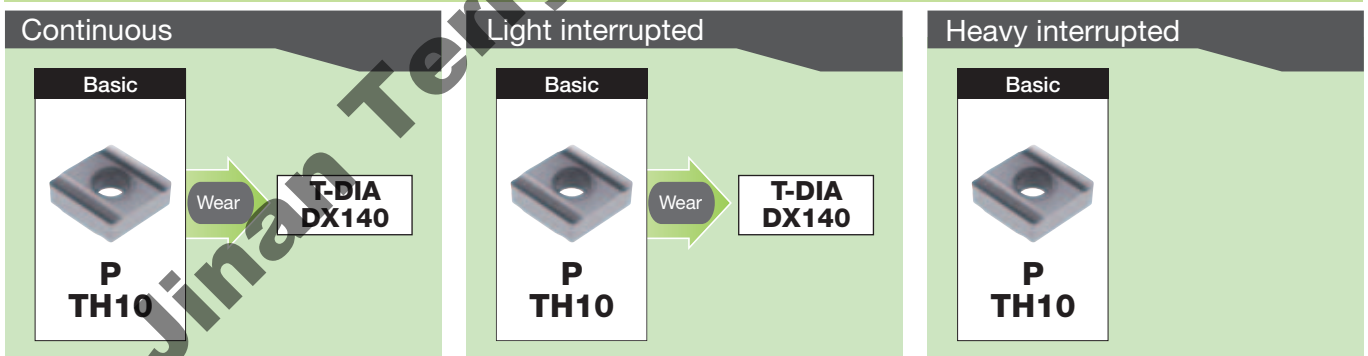
Precision finishing [$a_p = \sim 0.5 \text{ mm}$]



Finishing [$a_p = 0.5 \sim 2.0 \text{ mm}$]



Medium cutting [$a_p = 1.0 \sim 4.0 \text{ mm}$]



2

TAC Inserts

Basic Chipbreakers Negative Inserts

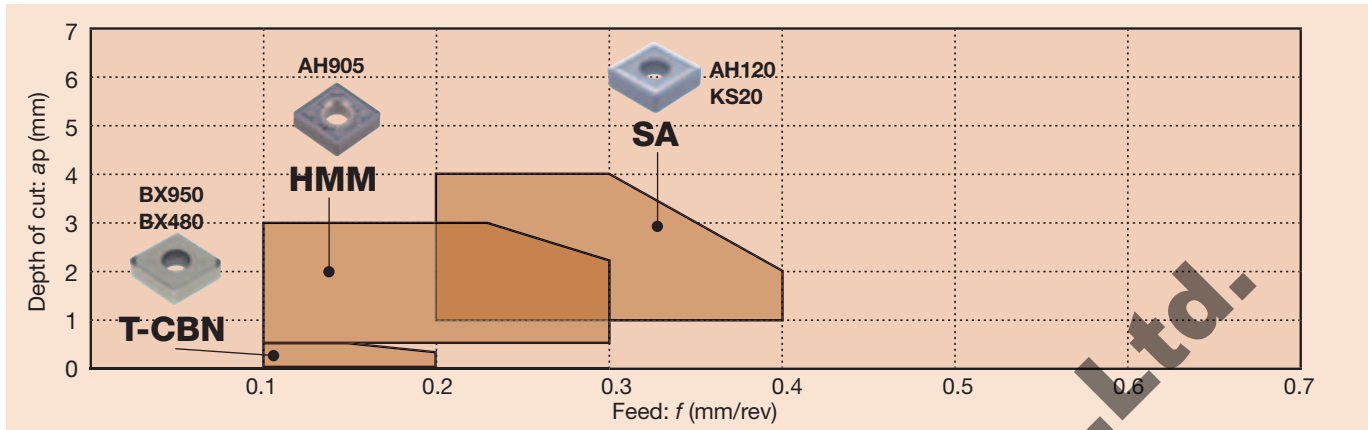


Superalloys and titanium

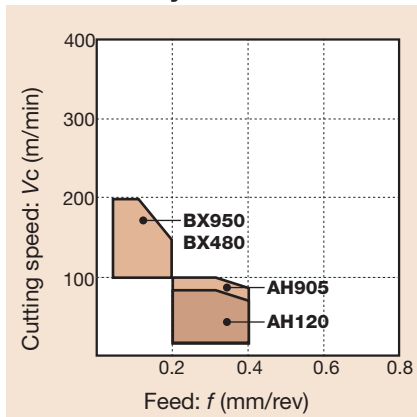
2

TAC Inserts

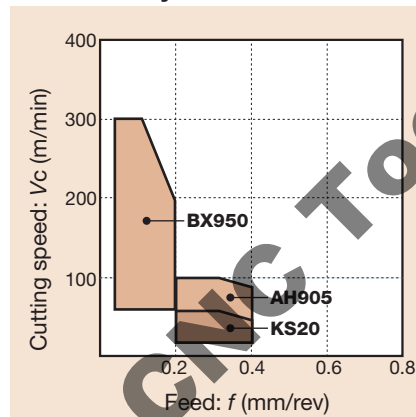
Chipbreaker System for Turning (Negative Inserts)



Titanium alloys



Ni-base alloys



Chipbreaker	Appearance	Features
HMM		Low cutting force chipbreaker for super alloys. Combined with the narrow positive land and uneven dots on the rake face allows a small contact area for chips, reducing cutting forces considerably.

Chipbreaker	Appearance	Features
No chip-breaker (T-CBN)		T-CBN inserts. Performs well in finishing of heat-resistant or titanium alloys.
SA		This chipbreaker is designed its to reduce the contact-area between tool and chip, preventing the insert from raising temperature during cutting.




Standard Cutting Conditions

Operation	Work condition	Chip-breaker	Grade	Depth of cut a_p (mm)	Feed f (mm/rev)	Cutting speed: V_c (m/min)	
						Titanium alloys	Ni-base alloys
Precision finishing	Continuous	Without	BX950	0.1 - 0.5	0.05 - 0.2	100 - 200	70 - 300
	Light interrupted		BX480				-
Finishing to Medium cutting	Continuous	HMM	AH905	0.5 - 3.0	0.1 - 0.3	20 - 100	20 - 100
	Light interrupted					20 - 80	20 - 50
	Heavy interrupted					10 - 60	10 - 40
Medium cutting	Continuous	SA	AH120	1.0 - 4.0	0.2 - 0.4	30 - 80	-
	Light interrupted					30 - 80	20 - 50
	Heavy interrupted					10 - 60	10 - 40

Ni-base alloys: INCONEL718 etc.

Titanium alloys: Ti-6Al-4V etc

Selection System **Negative Inserts**

Continuous	Light interrupted	Heavy interrupted
		

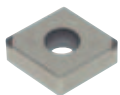
S Superalloys and titanium

Superalloys

Precision finishing [$a_p = \sim 0.5 \text{ mm}$]

Continuous

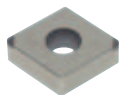
Basic



**T-CBN
BX950**

Light interrupted

Basic



**T-CBN
BX950**

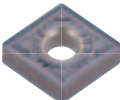
Fracture

No chipbreaker
TH10

Finishing [$a_p = 0.5 \sim 2.0 \text{ mm}$]

Continuous

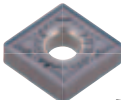
Basic



**HMM
AH905**

Light interrupted

Basic



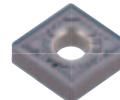
**HMM
AH905**

Fracture

**All-round
AH120**

Heavy interrupted

Basic



**HMM
AH905**

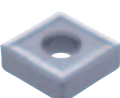
Fracture

**All-round
AH120**

Medium cutting [$a_p = 1.0 \sim 4.0 \text{ mm}$]

Continuous

Basic



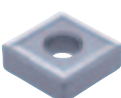
**SA
AH120**

Wear

**All-round
AH110**

Light interrupted

Basic



**SA
AH120**

Fracture

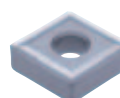
**All-round
AH110**

Wear

**All-round
AH110**

Heavy interrupted

Basic



**SA
AH120**

Fracture

**All-round
AH120**

2

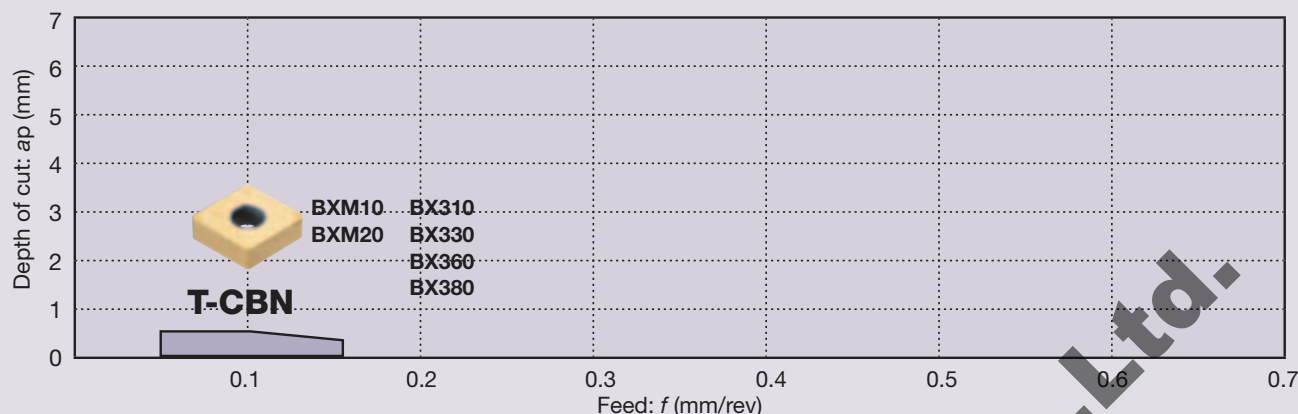
TAC Inserts

Basic Chipbreakers

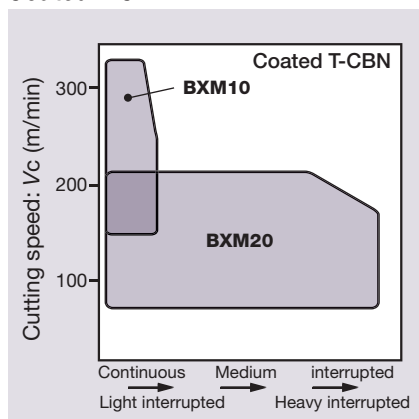
Negative Inserts

H Hard Materials

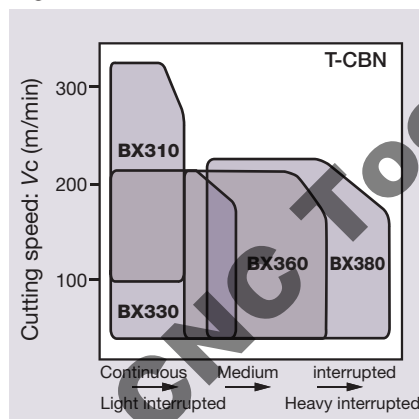
Chipbreaker System for Turning (Negative Inserts)



Coated T-CBN



T-CBN



Chipbreaker	Appearance	Features
No chip-breaker (T-CBN)		Performs well in finishing of hardened steel.





Chipbreaker	Appearance	Features
HF		When used in removing a carburized layer, excels in chip control at small depth of cut.
HM		When used in removing a carburized layer, excels in chip control at large depth of cut.

Standard Cutting Conditions

Operation	Work condition	Chipbreaker	Grade	Depth of cut ap (mm)	Feed f (mm/rev)	Cutting speed Vc (m/min)
Precision finishing	Continuous to light interrupted	Without	BXM10	0.05 - 0.3	0.03 - 0.18	150 - 350
Finishing	Continuous to heavy interrupted	Without	BXM20	0.05 - 0.3	0.05 - 0.25	70 - 220
Removing of carburized layer	Continuous	HF	BXM20	0.2 - 0.75	0.05 - 0.2	70 - 220
		HM		0.5 - 1.0		

Hardened steels, Pre-hardened steels: X100CrMoV5, X40CrMoV5-1 etc.

Selection System **Negative Inserts**

Continuous	Light interrupted	Medium interrupted	Heavy interrupted
			

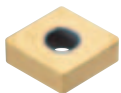
H Hard Materials

Hard Materials

Precision finishing [$a_p = \sim 0.2 \text{ mm}$]

Continuous

Basic



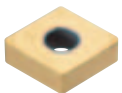
**T-CBN
BXM20**

For high speed
Wear

**T-CBN
BXM10**

Light interrupted

Basic



**T-CBN
BXM20**

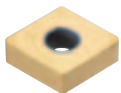
For high speed
Wear

**T-CBN
BXM10**

Finishing [$a_p = \sim 0.5 \text{ mm}$]

Continuous

Basic



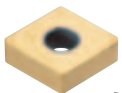
**T-CBN
BXM20**

For high speed
Wear

**T-CBN
BXM10**

Light interrupted

Basic



**T-CBN
BXM20**

For high speed
Wear

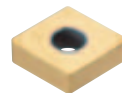
**T-CBN
BXM10**

Fracture

**-H
BXM20**

Medium ~ Heavy interrupted

Basic



**T-CBN
BXM20**

Fracture

**-H
BXM20**

2

TAC Inserts

Basic Chipbreakers

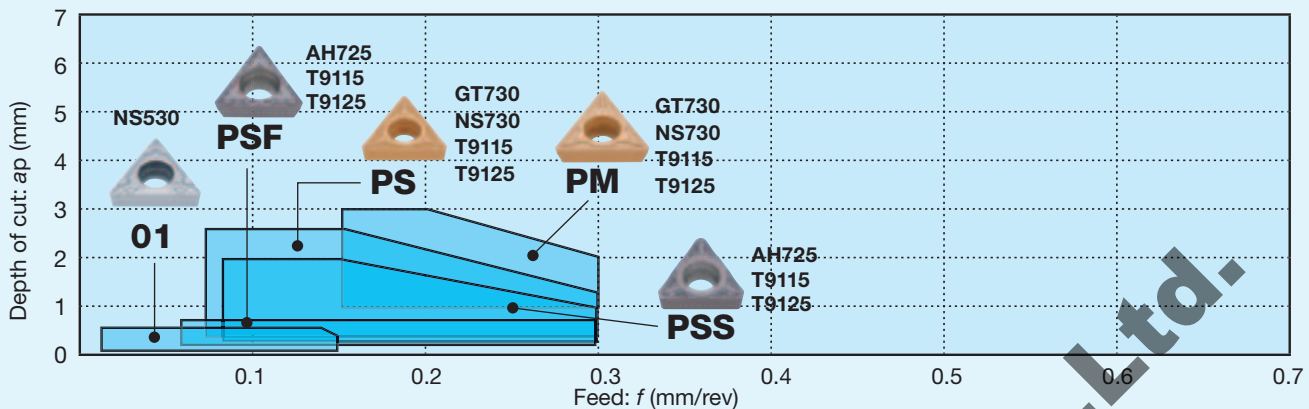
Positive Inserts

P Steel

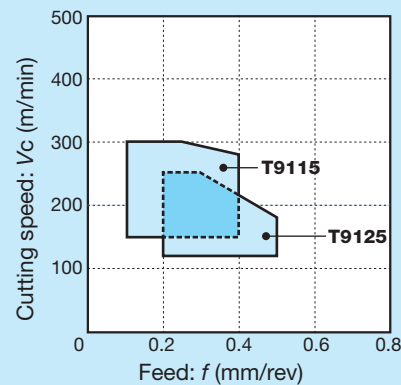
Chipbreaker System for Turning (Positive Inserts)

2

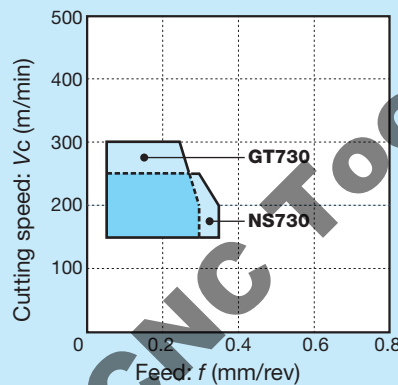
TAC Inserts



CVD coated grades



Coated cermets / Cermets



Chipbreaker	Appearance	Features
01		The sharp cutting edge and raised projection near corner contribute to excellent chip control at very small depth of cut and low feed.
PSF		Developed chipbreaker for finishing at low cutting depths. Optimal chip control due to pre-positioned chipbreaker element.
PSS		3-dimensional chipbreaker designed to have excellent chip control capability and low cutting force in finishing to medium cutting. Low cost, M-class positive insert used for high efficiency boring in a wide range of applications.

Chipbreaker	Appearance	Features
PS		3-dimensional chipbreaker designed to have excellent chip control capability and low cutting force in finishing to medium cutting. Low cost, M-class positive insert used for high efficiency boring in a wide range of applications.
PM		Developed chipbreaker for medium cutting. Excellent chip control due to wide, positive chip flow zone.

Standard Cutting Conditions

Operation	Work condition	Chip-breaker	Grade	Depth of cut ap (mm)	Feed f (mm/rev)	Cutting speed: Vc (m/min)		
						Low carbon steels, Alloy steels	Medium carbon steels, Alloy steels	High carbon steels, Alloy steels
Precision finishing	Continuous	01	GT730	0.05 - 0.5	0.03 - 0.15	150 - 300	80 - 250	80 - 200
	Light interrupted		NS530			150 - 250	80 - 220	80 - 180
Finishing	Continuous	PSF	AH725	0.1 - 0.5	0.05 - 0.3	50 - 180	50 - 180	40 - 150
	Light interrupted					50 - 180	50 - 180	40 - 150
	Heavy interrupted					50 - 150	50 - 150	40 - 120
Finishing to light cutting	Continuous	PSS	AH725	0.3 - 2.0	0.08 - 0.3	50 - 180	50 - 180	40 - 150
	Light interrupted					50 - 180	50 - 180	40 - 150
	Heavy interrupted					50 - 150	50 - 150	40 - 120
Finishing to Medium cutting	Continuous to Heavy interrupted	PS	T9115	0.5 - 2.5	0.08 - 0.3	120 - 250	100 - 200	80 - 180
			T9125			120 - 250	80 - 180	80 - 120
Medium cutting	Continuous to Heavy interrupted	PM	T9115	1.0 - 3.0	0.15 - 0.3	120 - 250	100 - 200	80 - 180
			T9125			120 - 250	80 - 180	80 - 120

Low carbon steels, Alloy steels: C10E, 15CrMo5, 20Cr4H, etc. Medium carbon steels, Alloy steels: C45, 42CrMo4, etc.
High carbon steels, Alloy steels: 35CrNiMo6, etc.

Selection System Positive Inserts

2

TAC Inserts

P Steel

Steel

Precision finishing [$a_p = \sim 0.5 \text{ mm}$]

Continuous

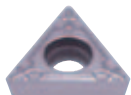
Basic



**01
NS530**

Light interrupted

Basic



**01
NS530**

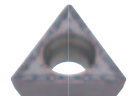
Fracture

**PSF
AH725**

Finishing [$a_p = 0.1 \sim 0.5 \text{ mm}$]

Continuous

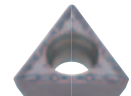
Basic



**PSF
AH725**

Light interrupted

Basic



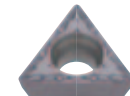
**PSF
AH725**

Fracture

**PSF
T9115**

Heavy interrupted

Basic



**PSF
AH725**

Fracture

**PS
T9125**

Finishing to Medium cutting [$a_p = 0.5 \sim 2.5 \text{ mm}$]

Continuous

Basic



**PSS
T9115**

Light interrupted

Basic



**PS
T9115**

Fracture

**PS
T9125**

Wear

**PS
GT730**

Heavy interrupted

Basic



**PS
T9125**

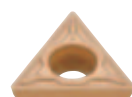
Fracture

**PM
T9125**

Medium cutting [$a_p = 1.0 \sim 3.0 \text{ mm}$]

Continuous

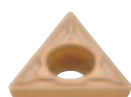
Basic



**PM
T9115**

Light interrupted

Basic



**PM
T9115**

Fracture

**PM
T9125**

Heavy interrupted

Basic



**PM
T9125**

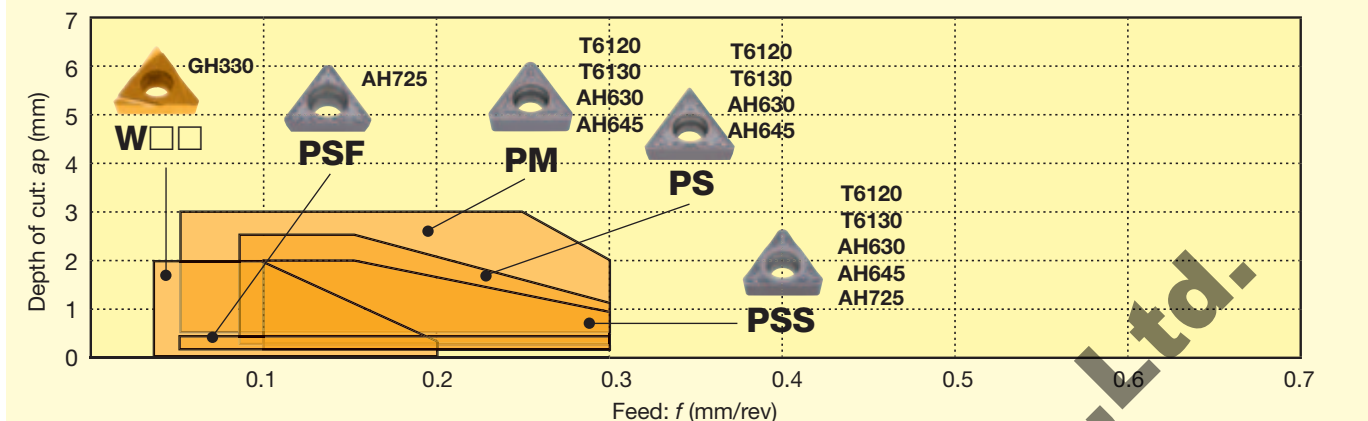
Basic Chipbreakers Positive Inserts

M Stainless Steel

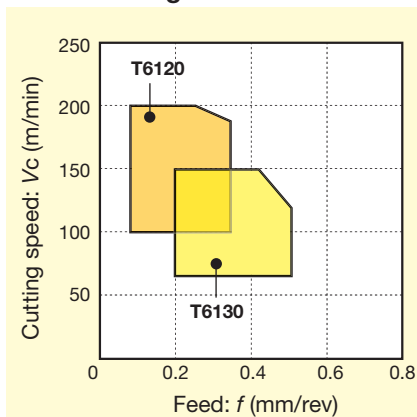
Chipbreaker System for Turning (Positive Inserts)

TAC Inserts

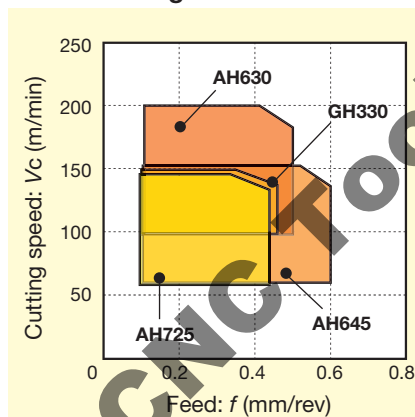
2



CVD coated grades



PVD coated grades



Chipbreaker	Appearance	Features
W		Designed to control the direction of chip flow and used for precision finish boring. Provides excellent chip evacuation which is important to attain a highly accurate bore.
PSF		Developed chipbreaker for finishing at low cutting depths. Optimal chip control due to pre-positioned chipbreaker element.

Chipbreaker	Appearance	Features
PSS		3-dimensional chipbreaker designed to have excellent chip control capability and low cutting force in finishing to medium cutting. Low cost, M-class positive insert used for high efficiency boring in a wide range of applications.
PS		3-dimensional chipbreaker designed to have excellent chip control capability and low cutting force in finishing to medium cutting. Low cost, M-class positive insert used for high efficiency boring in a wide range of applications.
PM		Developed chipbreaker for medium cutting. Excellent chip control due to wide, positive chip flow zone.

Standard Cutting Conditions

Operation	Work condition	Chipbreaker	Grade	Depth of cut a_p (mm)	Feed f (mm/rev)	Cutting speed V_c (m/min)
Precision finishing	Continuous	W	GH330	0.05 - 2.0	0.03 - 0.2	100 - 150
Finishing	Continuous	PSF	AH725	0.1 - 0.5	0.05 - 0.3	50 - 150
	Light interrupted					50 - 150
	Heavy interrupted					50 - 120
	Continuous					50 - 150
Finishing to light cutting	Light interrupted	PSS	AH725	0.3 - 2.0	0.08 - 0.3	50 - 150
	Heavy interrupted					50 - 120
	Continuous					100 - 200
Finishing to medium cutting	Light interrupted	PS	T6130	0.5 - 2.5	0.08 - 0.3	100 - 200
	Heavy interrupted		AH630			100 - 200
	Continuous		AH630			70 - 170
	Continuous		T6130			100 - 200
Medium cutting	Light interrupted	PM	AH630	1.0 - 3.0*	0.15 - 0.3	100 - 200
	Heavy interrupted		AH630			50 - 100
	Continuous		AH630			50 - 100

*For CCMT0602 and DCMT0702 type inserts, $a_p = 0.5 - 2.5$
Stainless steels: X5CrNi18-10, X5CrNiMo17-12-2, etc.

M Stainless Steel

Stainless

Precision finishing [$a_p = \sim 0.5 \text{ mm}$]

Continuous

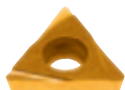
Basic



W□□
GH330

Light interrupted

Basic

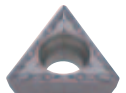


W□□
GH330

Finishing [$a_p = 0.3 \sim 1.5 \text{ mm}$]

Continuous

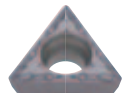
Basic



PSF
AH725

Light interrupted

Basic



PSF
AH725

Fracture

PS
AH645

Wear

PS
AH630

Heavy interrupted

Basic



PSF
AH725

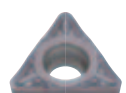
Fracture

PS
AH645

Finishing to Medium cutting [$a_p = 0.5 \sim 2.5 \text{ mm}$]

Continuous

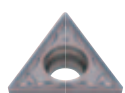
Basic



PSS
AH630

Light interrupted

Basic



PS
AH630

Fracture

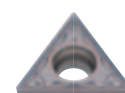
PM
AH645

Wear

PS
T6130

Heavy interrupted

Basic



PS
AH630

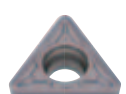
Fracture

PM
AH645

Medium cutting [$a_p = 1.0 \sim 3.0 \text{ mm}$]

Continuous

Basic



PM
AH630

Wear

PM
T6120

Light interrupted

Basic



PM
AH630

Fracture

PM
AH645

Wear

PM
T6130

Heavy interrupted

Basic



PM
AH630

Fracture

PM
AH645

Basic Chipbreakers

Positive Inserts

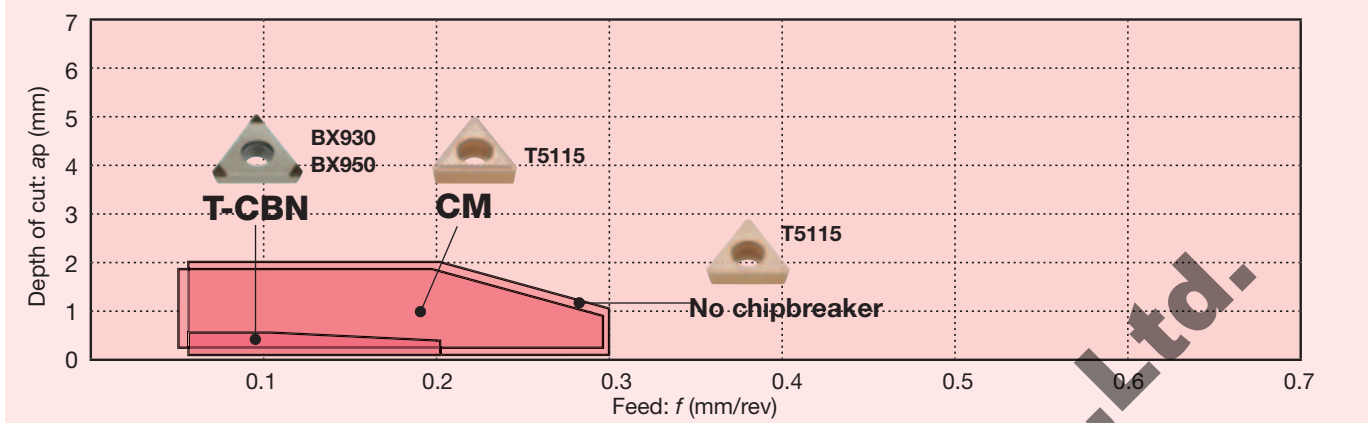


Cast Iron

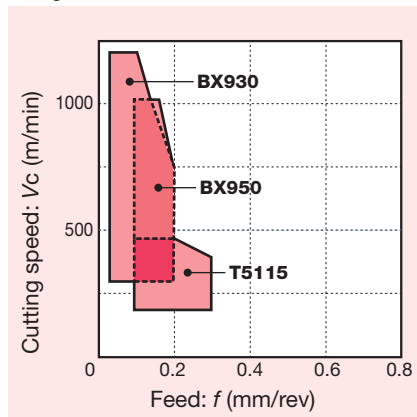
2

TAC Inserts

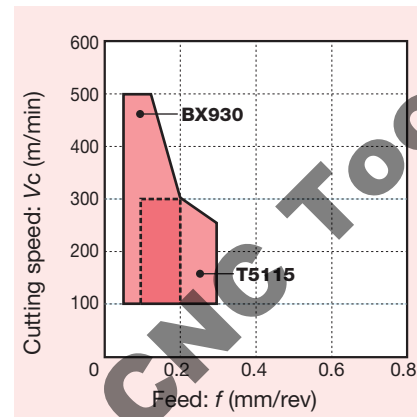
Chipbreaker System for Turning (Positive Inserts)



Grey cast irons



Ductile cast irons



Chipbreaker	Appearance	Features
No chip-breaker (T-CBN)		Performs well in high speed finishing of cast iron.
No chip-breaker		Can cover a wide range of applications from finishing to roughing of cast irons. Excels in cutting edge strength.

Chipbreaker	Appearance	Features
CM		All-around chipbreaker for general purpose cutting, provides low cutting forces and excellent performance in finishing to medium cutting.

Standard Cutting Conditions

Operation	Work condition	Chip-breaker	Grade	Depth of cut a_p (mm)	Feed f (mm/rev)	Cutting speed: V_c (m/min)	
						Grey cast irons	Ductile cast irons
Precision finishing	Continuous	Without	BX930	0.05 - 0.5	0.05 - 0.2	300 - 1200	100 - 500
	Light interrupted		BX950			300 - 800	100 - 300
Finishing	Continuous	CM	T5115	0.05 - 2.0	0.05 - 0.3	150 - 450	100 - 300
	Light interrupted					100 - 300	100 - 250
	Heavy interrupted					100 - 200	100 - 200
Medium cutting	Continuous	Without	T5115	0.05 - 2.0	0.05 - 0.3	150 - 450	100 - 300
	Light interrupted					100 - 300	100 - 250
	Heavy interrupted					100 - 200	100 - 200

Grey cast irons: GG25 etc.

Ductile cast irons: GGG45 etc.



Selection System **Positive Inserts**





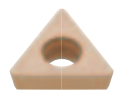
2

TAC Inserts

For high speed machining

Continuous	Light interrupted
	
T-CBN BX930	T-CBN BX950

Finishing to Medium cutting [$a_p = 0.5 \sim 3.0 \text{ mm}$]

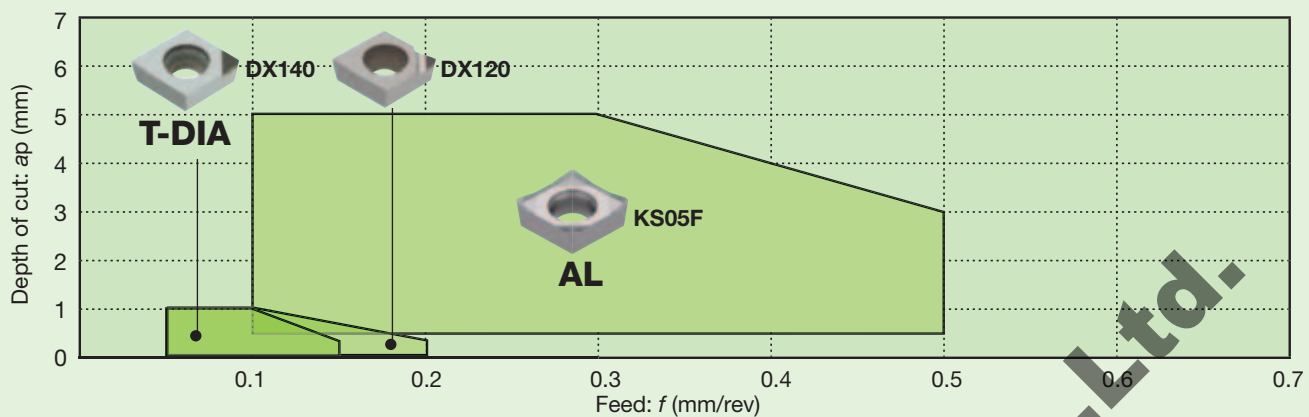
Continuous	Light interrupted	Heavy interrupted
<p>Basic</p>  <p>CM T5115</p> <p>Wear → T-CBN BX930</p>	<p>Basic</p>  <p>CM T5115</p>	<p>Basic</p>  <p>No chipbreaker T5115</p>

Basic Chipbreakers Positive Inserts

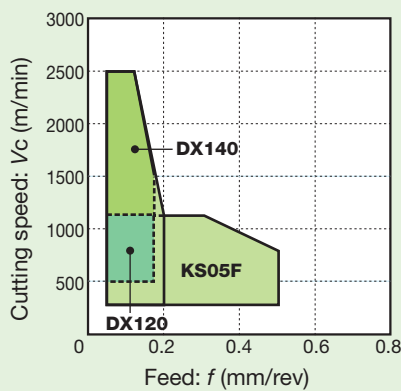


Non-ferrous Metal

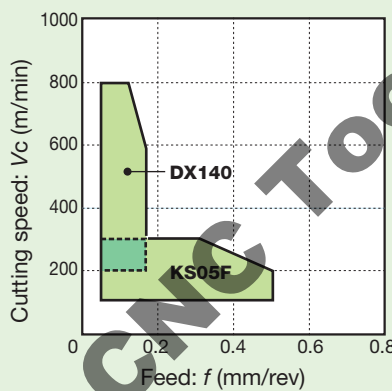
Chipbreaker System for Turning (Positive Inserts)



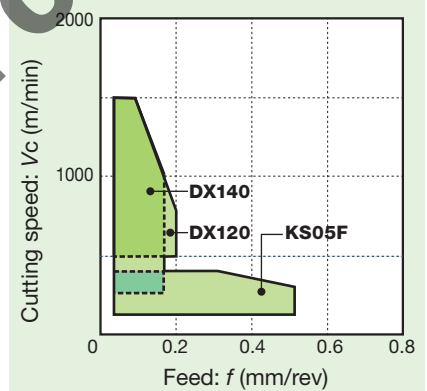
Aluminium alloys (Si < 12%)



Aluminium alloys (Si ≥ 12%)



Copper alloys



Chipbreaker	Appearance	Features
No chip-breaker (T-DIA)		Performs well in high speed finishing of non-ferrous materials.
AL		Extremely sharp cutting edge. Polished surface. Excellent chip forming at high cutting feeds. Low power consumption.

Chipbreaker	Appearance	Features
With chip-breaker (T-DIA)		The wide chipbreaker width contributes to excellent chip control.

Standard Cutting Conditions

Operation	Work condition	Chip-breaker	Grade	Depth of cut a_p (mm)	Feed f (mm/rev)	Cutting speed: V_c (m/min)		
						Aluminium alloys (Si < 12%)	Aluminium alloys (Si ≥ 12%)	Copper alloys
Precision finishing	Continuous	Without	DX140	0.05 - 1.0	0.05 - 0.15	500 - 2500	400 - 800	500 - 1500
	Light interrupted	with	DX120	0.05 - 1.0	0.05 - 0.2	300 - 2500	-	500 - 1500
Finishing	Continuous	Without	DX140	0.05 - 1.0	0.05 - 0.15	500 - 2500	400 - 800	500 - 1500
	Light interrupted					300 - 1800	400 - 600	400 - 1200
	Heavy interrupted	AL	KS05F	0.5 - 5.0	0.1 - 0.5	100 - 600	100 - 200	-
Medium cutting	Continuous	AL	KS05F	0.5 - 5.0	0.1 - 0.5	100 - 1200	100 - 300	100 - 300
	Light interrupted					100 - 900	100 - 200	100 - 200
	Heavy interrupted					100 - 600	100 - 200	-

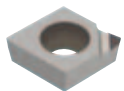
N Non-ferrous Metal

Non-ferrous

Precision finishing [$a_p = \sim 0.5 \text{ mm}$]

Continuous

Basic

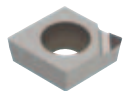

With chipbreaker
DX120

Wear

T-DIA
DX140

Light interrupted

Basic


With chipbreaker
DX120

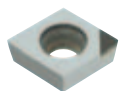
Wear

T-DIA
DX140

Finishing [$a_p = 0.5 \sim 2.0 \text{ mm}$]

Continuous

Basic


T-DIA
DX140

Wear

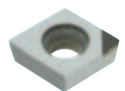
T-DIA
DX160

Chip control

With chipbreaker
T-DIA
DX120

Light interrupted

Basic


T-DIA
DX140

Fracture

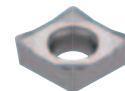
AL
KS05F

Wear

T-DIA
DX160

Heavy interrupted

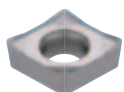
Basic


AL
KS05F

Medium cutting [$a_p = 1.0 \sim 5.0 \text{ mm}$]

Continuous

Basic

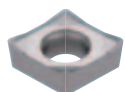

AL
KS05F

Wear

With chipbreaker
T-DIA
DX120

Light interrupted

Basic

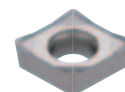

AL
KS05F

Wear

T-DIA
DX140

Heavy interrupted

Basic


AL
KS05F

Basic Chipbreakers

Positive Inserts

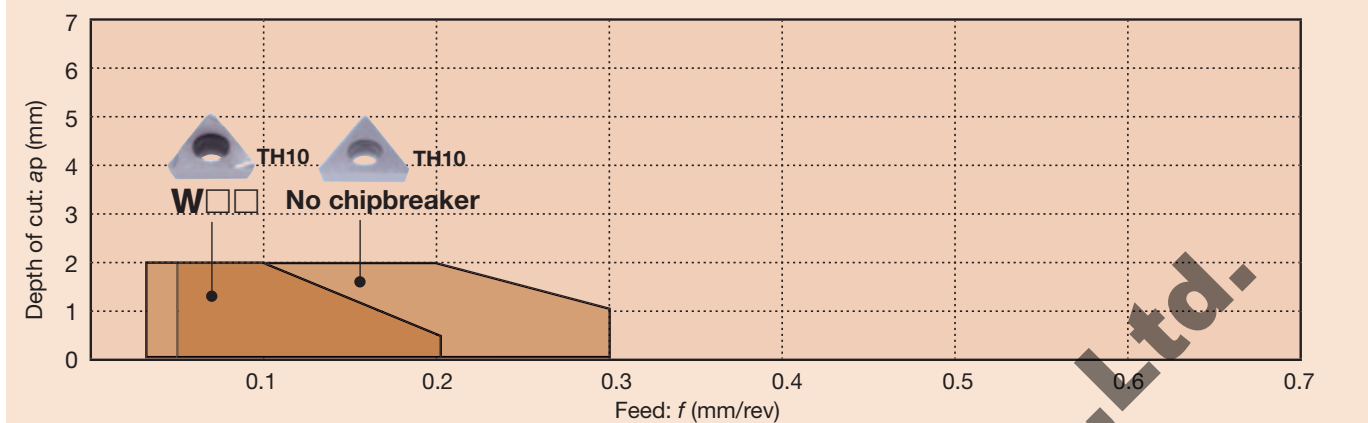


Superalloys and titanium

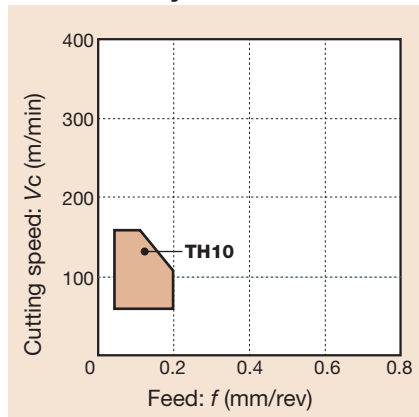
2

TAC Inserts

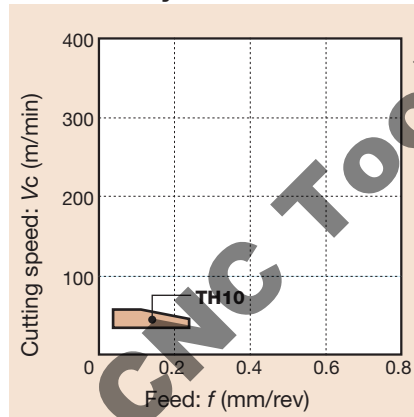
Chipbreaker System for Turning (Positive Inserts)



Titanium alloys



Ni-base alloys



Chipbreaker	Appearance	Features
W		Designed to control the direction of chip flow and used for precision-finish boring. Provides excellent chip evacuation which is important to attain a highly accurate bore.
No chip-breaker		Can cover a wide range of applications from finishing to roughing. Excels in cutting edge strength.

Standard Cutting Conditions

Operation	Work condition	Chip-breaker	Grade	Depth of cut a_p (mm)	Feed f (mm/rev)	Cutting speed: V_c (m/min)	
						Titanium alloys	Ni-base alloys
Precision finishing	Continuous	W	TH10	0.05 - 2.0	0.03 - 0.2	50 - 150	10 - 50
	Light interrupted					50 - 100	10 - 30
Finishing	Continuous	No chipbreaker	TH10	0.05 - 2.0	0.05 - 0.3	50 - 150	10 - 50
	Light interrupted					50 - 100	10 - 30
	Heavy interrupted					30 - 80	10 - 30

Ni-base alloys: INCONEL718 etc.

Titanium alloys: Ti-6Al-4V etc.



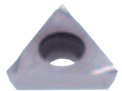
Superalloys and titanium

Superalloys

Precision finishing [$a_p = \sim 0.5 \text{ mm}$]

Continuous

Basic



Wear

T-CBN
BX950

W□□
TH10

Light interrupted

Basic



Wear

T-CBN
BX950

W□□
TH10

Finishing [$a_p = 0.5 \sim 2.0 \text{ mm}$]

Continuous

Basic



W□□
TH10

Light interrupted

Basic



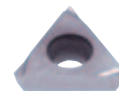
Fracture

No chipbreaker
TH10

W□□
TH10

Heavy interrupted

Basic



Fracture

No chipbreaker
TH10

W□□
TH10

Basic Chipbreakers

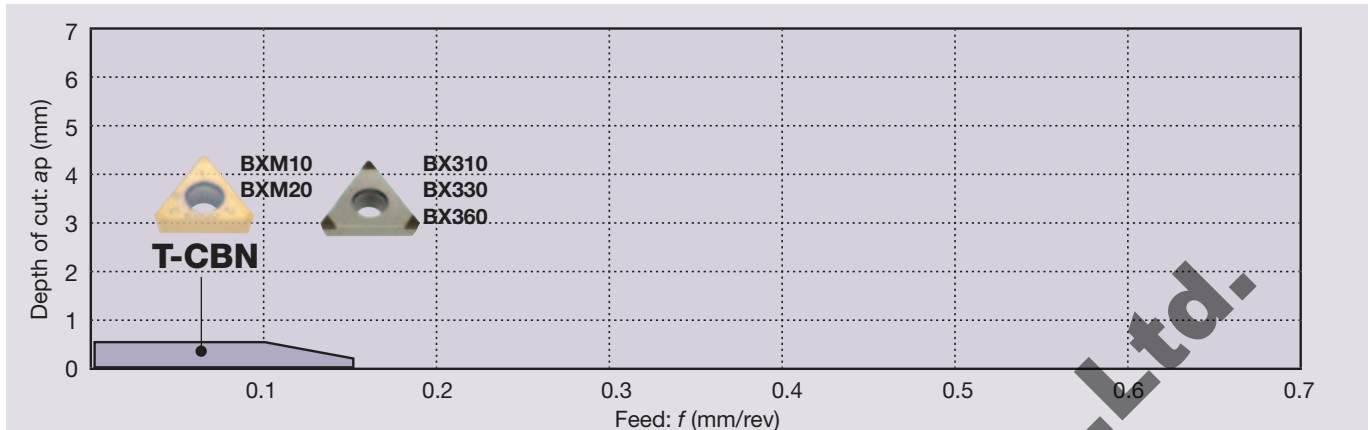
Positive Inserts

H Hard Materials

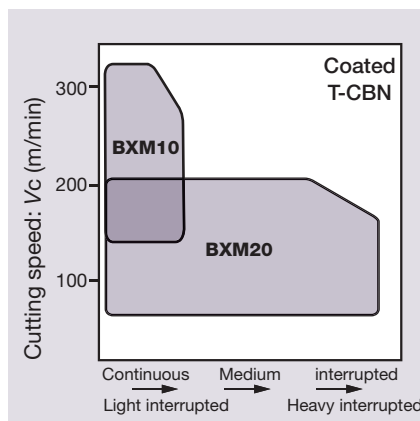
Chipbreaker System for Turning (Positive Inserts)

2

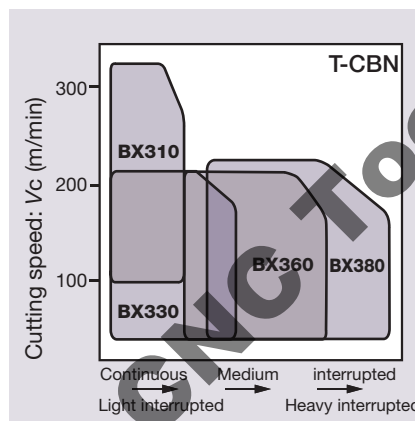
TAC Inserts



Coated T-CBN



T-CBN



Chipbreaker	Appearance	Features
No chip-breaker (T-CBN)		Performs well in finishing of hardened steel.

Standard Cutting Conditions

Operation	Work condition	Chipbreaker	Grade	Depth of cut a_p (mm)	Feed f (mm/rev)	Cutting speed V_c (m/min)
Precision finishing	Continuous	No chipbreaker (T-CBN)	BXM10	0.05 - 0.3	0.03 - 0.15	150 - 350
	Light interrupted		BXM20			70 - 220
Finishing	Continuous ~ interrupted	No chipbreaker (T-CBN)	BXM20	0.07 - 0.5	0.05 - 0.3	70 - 220

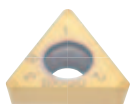
Hardened steels, Pre-hardened steels: X100CrMoV5, X40CrMoV5-1 etc.

H Hard Materials

Hard
MaterialsFinishing [$a_p = \sim 0.3 \text{ mm}$]

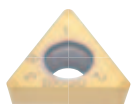
Continuous

Basic

**T-CBN
BXM20**For high
speed
Wear**T-CBN
BXM10**

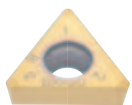
Light interrupted

Basic

**T-CBN
BXM20**For high
speed
Wear**T-CBN
BXM10**Finishing [$a_p = \sim 0.3 \text{ mm}$]

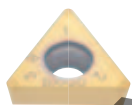
Continuous

Basic

**T-CBN
BXM20**For high
speed
Wear**T-CBN
BXM10**

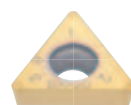
Light interrupted

Basic

**T-CBN
BXM20**For high
speed
Wear**T-CBN
BXM10**

Medium ~ Heavy interrupted

Basic


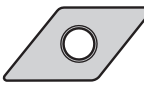



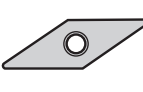

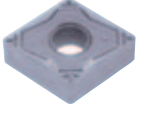
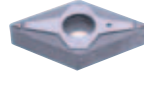
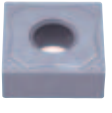
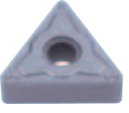
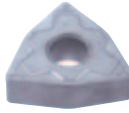
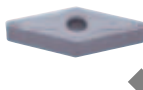
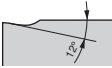
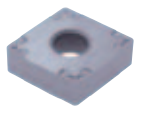
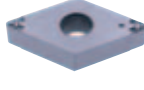
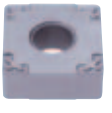
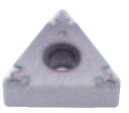
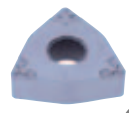

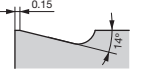
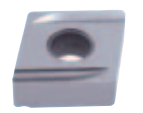

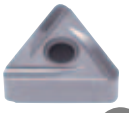


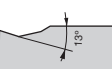
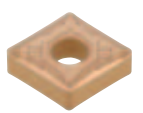
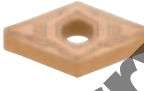



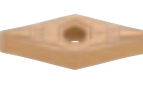
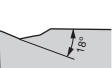
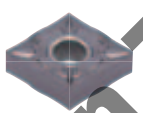
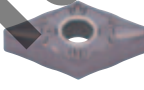
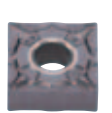
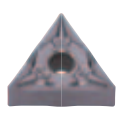
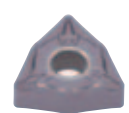
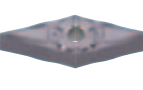

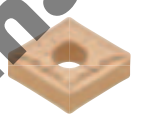
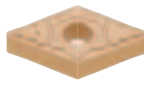

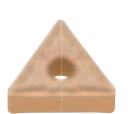



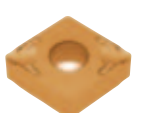
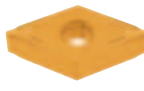




**T-CBN
BXM20**


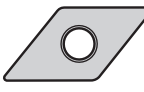



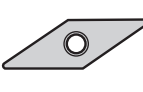
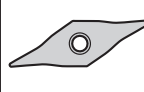
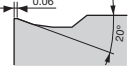
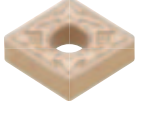
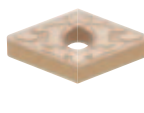

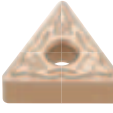
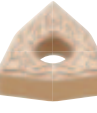
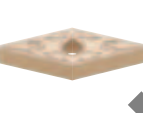
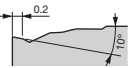
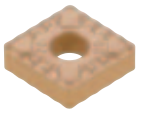
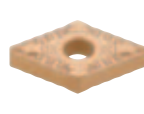




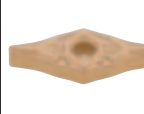

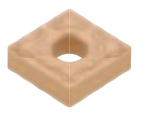
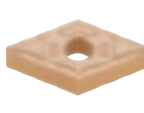

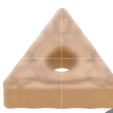



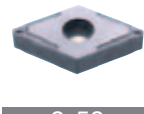



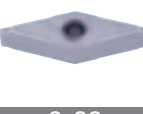

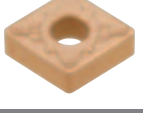

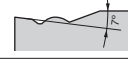
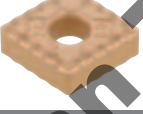
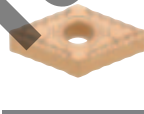






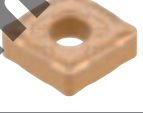
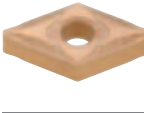



Chipbreaker Overview

TAC Negative Inserts for General Turning with hole

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TAC Inserts

Application	Chipbreaker	C	D	S	T	W	V	
Precision finishing	Negative							
		80° Negative	55° Negative	90° Negative	60° Negative	80° Negative	35° Negative	
	TF (M) 	 2-42	 2-52	 2-61	 2-70	 2-80	 2-87	
	01 (G) 	 2-42	 2-52	 2-61	 2-70	 2-80	 2-87	
	A~D (G) 	 2-42		 2-61	 2-70			
	W (G) 				 2-71			
	TSF (M) 	 2-42	 2-52	 2-61	 2-71	 2-80	 2-87	
	SF (M) 	 2-42	 2-52	 2-62	 2-71	 2-80	 2-87	
	TS (M) 	 2-43	 2-52	 2-62	 2-71	 2-80	 2-87	
	SS (M) 	 2-43	 2-53	 2-62	 2-71	 2-81	 2-88	
Finishing								


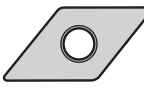



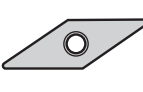


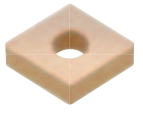
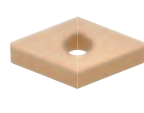


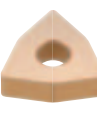
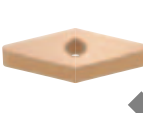

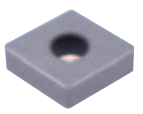
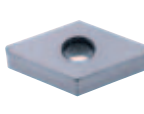

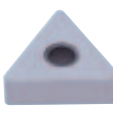

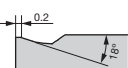
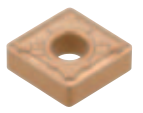


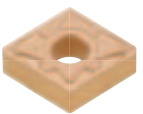
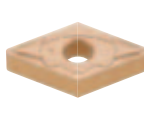
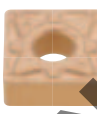
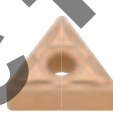

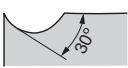
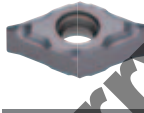
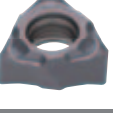
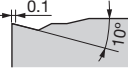
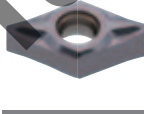



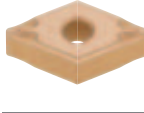
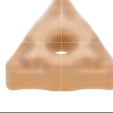

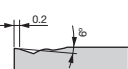
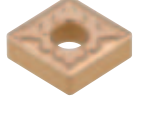
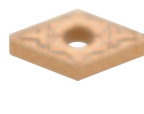



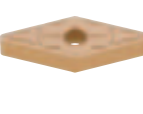
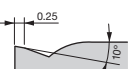
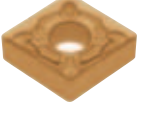
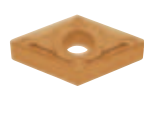



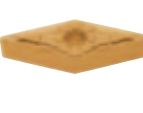
Application	Chipbreaker	C	D	S	T	W	V	Y
	Negative							
		80° Negative	55° Negative	90° Negative	60° Negative	80° Negative	35° Negative	25° Negative
Finishing	CF (M) 	 2-43	 2-53	 2-62	 2-72	 2-81	 2-88	
	ZF (M) 	 2-43	 2-53	 2-62	 2-72	 2-81	 2-88	 2-91
	NS (M) 	 2-43	 2-53	 2-63	 2-72	 2-81		
	11 (M) 	 2-44	 2-53	 2-63	 2-72	 2-82	 2-88	
	AFW (M) 	 2-44				 2-81		
	ZM (M) 	 2-45	 2-54	 2-63	 2-73	 2-83	 2-88	 2-91
Finishing to medium cutting	NM (M) 	 2-45	 2-55	 2-64	 2-73	 2-83		


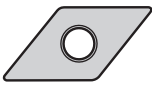



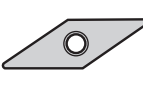

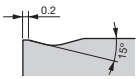
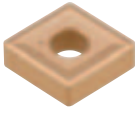
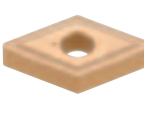



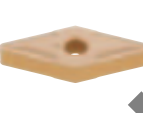
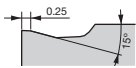
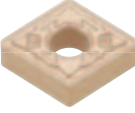
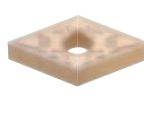

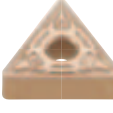



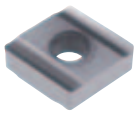
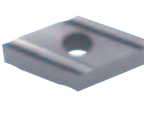


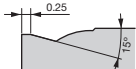
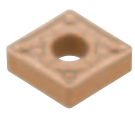
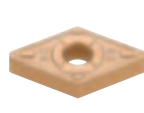
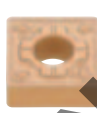



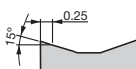
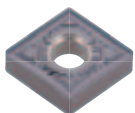
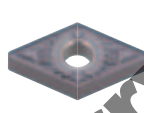
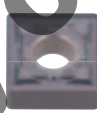
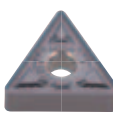
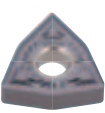
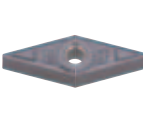
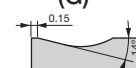
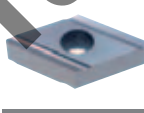





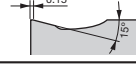
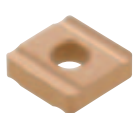
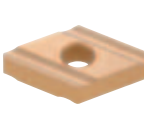


Chipbreaker Overview

TAC Negative Inserts for General Turning with hole

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TAC Inserts

Appli- cation	Chipbreaker	C	D	S	T	W	V	R
	Negative							
		80° Negative	55° Negative	90° Negative	60° Negative	80° Negative	35° Negative	Negative
Finishing to medium cutting	 (M)	 2-50	 2-59	 2-68	 2-78	 2-86	 2-90	
	 (G)	 2-50	 2-59	 2-68	 2-78			 2-92
High feed, small depth of cut	ASW (M) 	 2-44				 2-82		
	AS (M) 	 2-44	 2-54	 2-64	 2-73	 2-82		
Boring (Double sided)	SS (G) 		 2-59			 2-86		
	TS (G) 		 2-59			 2-86		
	CB (M) 	 2-45	 2-54		 2-73	 2-82		
Medium cutting	TM (M) 	 2-45	 2-55	 2-64	 2-74	 2-83	 2-89	
	SM (M) 	 2-46	 2-55	 2-64	 2-74	 2-83	 2-89	


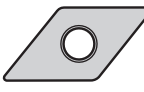



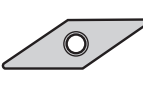

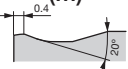
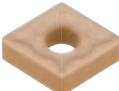
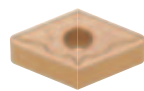



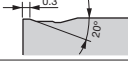
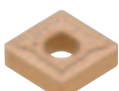
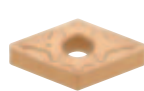




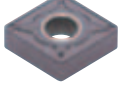
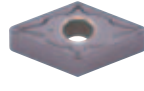

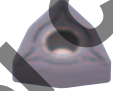

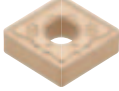
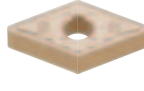




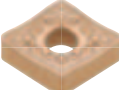


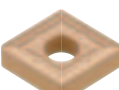






Appli- cation	Chipbreaker	C	D	S	T	W	V	R
	Negative							
		80° Negative	55° Negative	90° Negative	60° Negative	80° Negative	35° Negative	Negative
Medium cutting	All-round (M) 	 2-46	 2-55	 2-65	 2-74	 2-84	 2-89	
	CM (M) 	 2-46	 2-56	 2-65	 2-75	 2-84	 2-89	
	P (G) 	 2-48	 2-58	 2-66	 2-77			
	DM (M) 	 2-46	 2-56	 2-65	 2-75	 2-84	 2-89	
	HMM (M) 	 2-47	 2-56	 2-65	 2-75	 2-84	 2-90	
	Parallel (G) 		 2-57					
	SA (M) 	 2-48		 2-66	 2-76	 2-85		
	S (M) 	 2-48	 2-58	 2-66	 2-77			

Chipbreaker Overview

TAC Negative Inserts for General Turning with hole

2

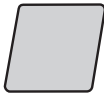
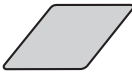






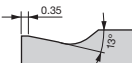


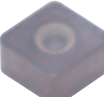
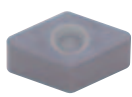

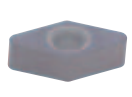


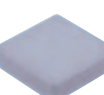



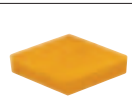

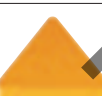

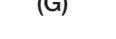



TAC Inserts

Application	Chipbreaker	C	D	S	T	W	V	R
	Negative							
		80° Negative	55° Negative	90° Negative	60° Negative	80° Negative	35° Negative	Negative
Medium to heavy cutting	THS (M) 	 2-48	 2-58	 2-67	 2-77	 2-85		
	TH (M) 	 2-48	 2-58	 2-67	 2-77	 2-85		
	SH (M) 	 2-49	 2-58	 2-67		 2-85		
	CH (M) 	 2-49	 2-58	 2-67	 2-77	 2-86		
Medium to heavy cutting (Single sided)	TRS (M) 	 2-49		 2-67				
Heavy cutting	TUS (M) 	 2-49		 2-68				
	TU (M) 	 2-49		 2-68				
	61 (M) 							 2-92

Chipbreaker Overview

TAC Negative Inserts
for General Turning

without
hole

Appli- cation	Chipbreaker	C	D	S	T	V	R	KNMX	H
	Negative								
		80° Negative	55° Negative	90° Negative	60° Negative	35° Negative	Negative	55° Negative	120° Negative
Finishing	S1 (M) 							 2-94	
Finishing to medium cutting	I (G) 	 2-51	 2-60	 2-69		 2-90			 2-95
	I (M) 	 2-51		 2-69					
	I (G) 	 2-51	 2-60	 2-69	 2-79		 2-93		
Finishing to roughing	I (G) 	 2-51	 2-60	 2-69					

2


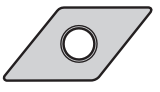


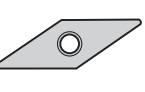
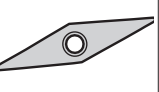

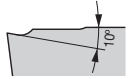
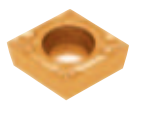

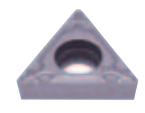
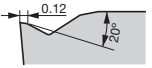
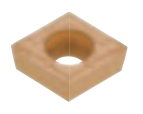
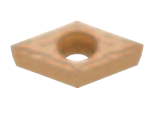
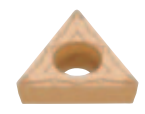
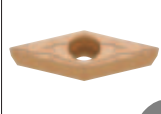
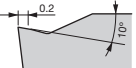
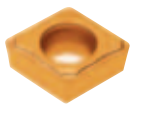
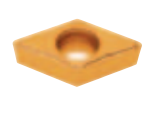


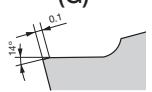
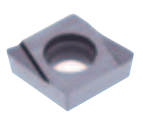
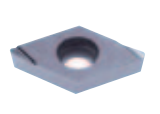

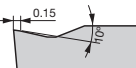
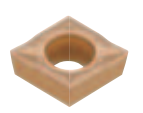
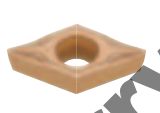

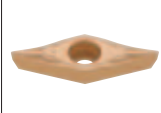
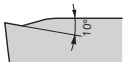
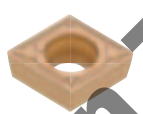
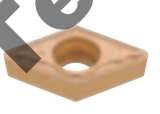


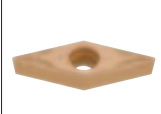
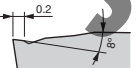

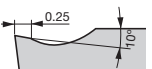
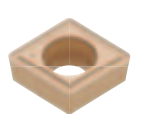
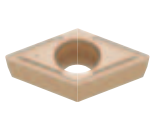


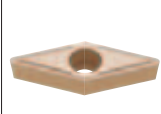



TAC Inserts


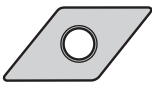


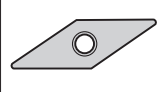


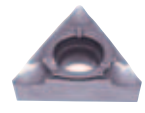

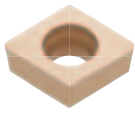
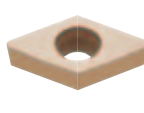
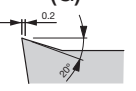
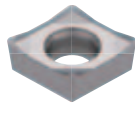
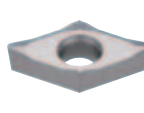

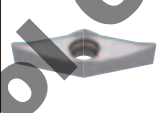
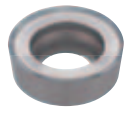
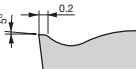


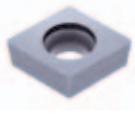
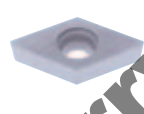



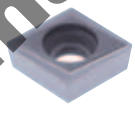
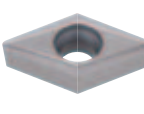
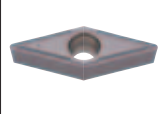

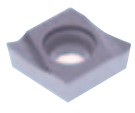
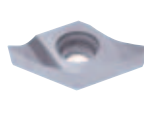
Chipbreaker Overview

TAC Positive Inserts for General Turning with hole

2

TAC Inserts

Application	Chipbreaker	C	D	S	T	V	Y	R
	Positive 7°							
		80° Positive 7°	55° Positive 7°	90° Positive 7°	60° Positive 7°	35° Positive 7°	25° Positive 7°	Positive 7°
Precision finishing	01 (G) 	 2-96	 2-105		 2-118			
	PSF (M) 	 2-96	 2-105		 2-118	 2-135		
Finishing	PF (M) 	 2-96	 2-105	 2-112		 2-135		
	W (G) 	 2-96	 2-105		 2-118			
Finishing to light cutting	PSS (M) 	 2-97	 2-106		 2-118	 2-135		
Finishing to medium cutting	PS (M) 	 2-97	 2-106	 2-112	 2-119	 2-135		
	ZF (M) 						 2-139	
	CM (M) 	 2-97	 2-106	 2-112	 2-119	 2-135		 2-140
	ZM (M) 						 2-139	


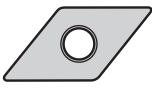


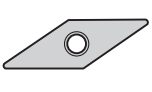

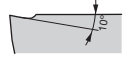
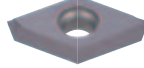
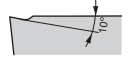
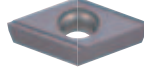
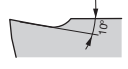
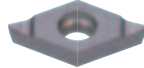
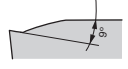
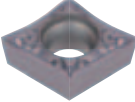
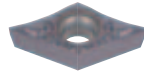
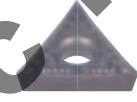
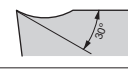
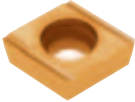
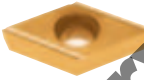

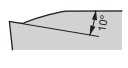
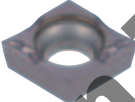
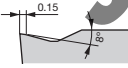
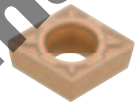
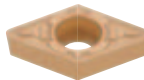


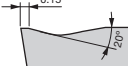

Application	Chipbreaker	C	D	S	T	V	R
	Positive 7°						
		80° Positive 7°	55° Positive 7°	90° Positive 7°	60° Positive 7°	35° Positive 7°	Positive 7°
Finishing to medium cutting	SS (G) 				 2-119		
	I (M) 	 2-101	 2-110				
	AL (G) 	 2-98	 2-106		 2-120	 2-136	 2-140
	RS (M) 						 2-140
	I (G) 	 2-101	 2-110				
	I (with hand) (G) 				 2-121		
	All-round (G) 	 2-100	 2-107			 2-136	
	Angular (G) 	 2-100	 2-107				



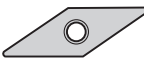
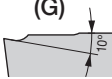
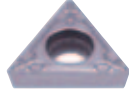
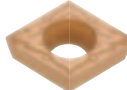
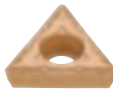
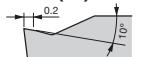


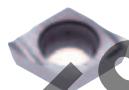
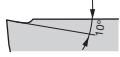
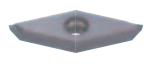
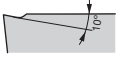

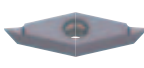
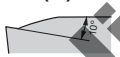
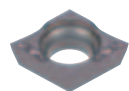





Chipbreaker Overview

TAC Positive Inserts for General Turning with hole

2

TAC Inserts

Application	Chipbreaker	C	D	S	T	V	R
	Positive 7°						
		80° Positive 7°	55° Positive 7°	90° Positive 7°	60° Positive 7°	35° Positive 7°	Positive 7°
For external turning on small lathes (Sharp edges)	JRP (E) 		 2-107				
	JPP (E) 		 2-108				
	JSP (E) 		 2-108				
	JS (G) 	 2-99	 2-108	 2-120			
	J□ (G) 	 2-99	 2-109	 2-120			
For internal turning on small lathes	JS (G) 	 2-99					
Medium cutting	PM (M) 	 2-100	 2-109	 2-112	 2-122		
Heavy cutting	61 (M) 						 2-141




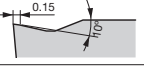
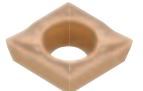
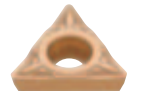
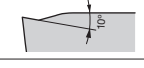
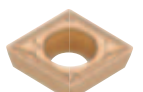


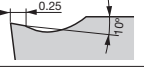
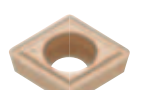



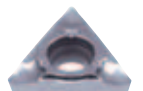

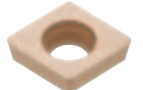


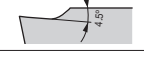



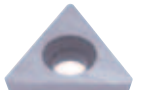
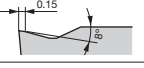
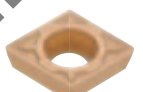
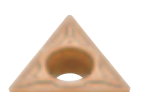


Appli- cation	Chipbreaker	C	S	T	E	V
	Positive 11°					
		80° Positive 11°	90° Positive 11°	60° Positive 11°	75° Positive 11°	35° Positive 11°
Precision finishing	01 (G) 			 2-123		
	PSF (M) 	 2-102		 2-123		
Finishing	PF (M) 	 2-102		 2-123		
	W (G) 	 2-102	 2-114	 2-124	 2-111	
For external turning on small lathes (Sharp edges)	JRP (E) 					 2-137
	JPP (E) 					 2-137
	JSP (E) 					 2-138
For internal turning on small lathes	JS (G) 			 2-124	 2-111	
	J08 (G) 				 2-111	
Finishing	I (with hand) (G) 		 Former Tungaloy-standard hole Not ISO 2-114			
	I (with hand) (G) 			 Former Tungaloy-standard hole Not ISO 2-127		




Chipbreaker Overview


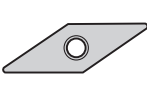
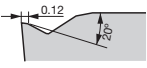

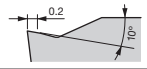





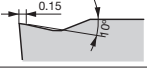

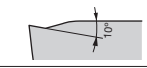

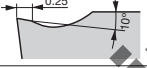
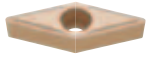
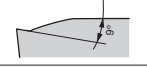
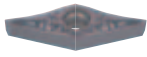
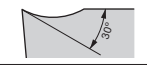

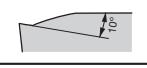

TAC Positive Inserts for General Turning with hole


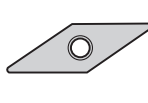
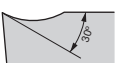

2



TAC Inserts



Application	Chipbreaker	C	S	T
	Positive 11°			
		80° Positive 11°	90° Positive 11°	60° Positive 11°
Finishing to light cutting	PSS (M) 	 2-102		 2-125
	PS (M) 	 2-103	 2-114	 2-126
Finishing to medium cutting	CM (M) 	 2-103	 2-114	 2-126
	SS (G) 			 2-126
	I (M) 	 2-104	 2-115	 2-128
	H (G) 			 2-127
	I (G) 		 2-115	 2-128
	PM (M) 	 2-103		 2-128
Medium cutting	All-round (M) 	 2-103		



Application	Chipbreaker	W
	Positive 11°	
		Positive 11°
Super high feed	ML (M) 	 2-132

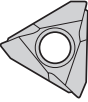

Application	Chipbreaker	W	V
	Positive 5°		
		80° Positive 5°	35° Positive 5°
Finishing	PSF (M) 		 2-133
	PF (M) 		 2-133
	W08 (G) 	 2-132	
	W11 (G) 	 2-132	
Finishing to light cutting	PSS (M) 		 2-133
Finishing to medium cutting	PS (M) 		 2-133
	CM (M) 		 2-133
For external turning on small lathes (Sharp edges)	JS (G) 		 2-134
	J10 (G) 		 2-134
For internal turning on small lathes	JS (G) 	 2-132	



Application	Chipbreaker	W	V
	Positive 5°		
		80° Positive 5°	35° Positive 5°
For external turning on small lathes (Honed edges)	J10 (G) 		 2-134

Application	Chipbreaker	JXF
	Positive	
		Positive
Front-turning Inserts	—	 2-144

Application	Chipbreaker	JXR
	Positive	
		Positive
Reverse-turning Inserts	—	 2-144

Application	Chipbreaker	JXB
	Positive	
		Positive
Back-turning Inserts	—	 2-145

Application	Chipbreaker	JTB
	Positive	
		Positive
Back-turning Inserts	—	 2-145

Application	Chipbreaker	J10E
	Positive	
		Positive
Back-turning Inserts	—	 2-146









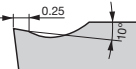









Chipbreaker Overview




TAC Positive Inserts
for General Turning

without
hole

2

TAC Inserts

Application	Chipbreaker	S	T	R
	Positive 11°			
		90° Positive 11°	60° Positive 11°	Positive 11°
Finishing	 (G)	 2-116		
	 (with hand) (G)	 2-116	 2-130	
Finishing to medium cutting	CM (M) 	 2-116	 2-130	
	 (M)	 2-117	 2-131	
	 (G)		 2-131	
	PS (M) 		 2-130	

Application	Chipbreaker	RT
	Round	
		Special round inserts
Medium cutting		 2-142

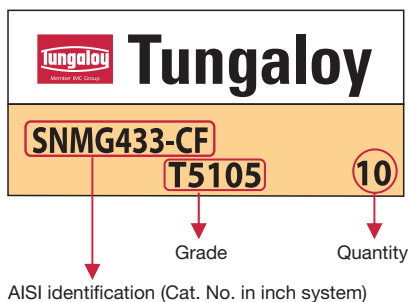
Jinan Terry CNC Tool Co., Ltd.

TAC Insert Navigation System

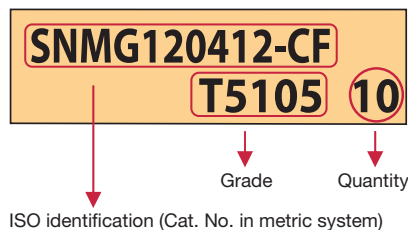
TAC insert navigation system indicates the proper work material and cutting conditions for the insert grade.

Label indication on insert case

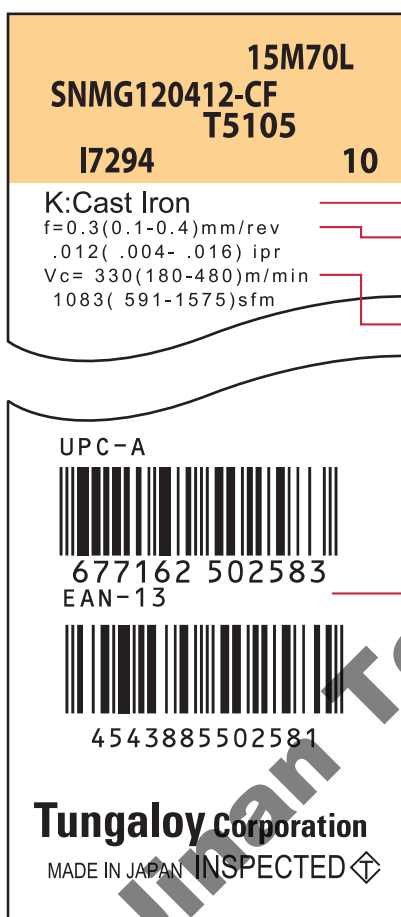
◆ Upside of case



◆ Side of case



◆ Underside of case



Indicates the proper work material for the grade.

Indicates the proper feed rate for the chipbreaker.
Upper position: ISO (Metric system)
Lower position: Inch system

Indicates the proper cutting speed for the grade.
Upper position: ISO (Metric system)
Lower position: Inch system

0.3(0.1 - 0.4)mm/rev

①

②

① Recommended feed

② Applicable feed range

330(180 - 480)m/min

①

②

① Recommended speed

② Recommended speed range

Barcode

EAN (European Article Number) code and UPC (Universal Product Code) are printed.
EAN is called JAN (Japanese Article Number) in Japan.

Work material classification system

- P** Steel : Low carbon steels, alloy steels (180HB) S10C, SCM415, SCr420H / C10E, 15CrMo5, 20Cr4H, etc.
- M** Stainless Steel : Austenitic JIS SUS304 / X5CrNi18-10, etc.
- K** Cast Iron : Grey cast irons JIS FC200 / GG20, etc.
- N** Non-ferrous Metal : Aluminium alloys
- S** Superalloys and titanium : Ni-base alloys INCONEL718, etc.
- H** Hard Materials : Hardened steels (60HRC) SKD11 / X100CrMoV5, etc.

Note: For details, refer to page 15-3 (Technical reference)

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

Y

R

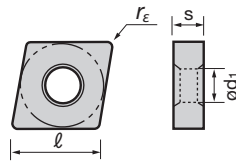
K

H

Rhombic, with hole

80° Negative

CN



CNMG 12 04 04 -



Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

CN	0903	1204	1606	1906	2509
od1 (mm)	3.81	5.16	6.35	7.93	9.12

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)									
	Appearance (Cross section)			Coated										Coated cermet		Cermet		Un-coated								
Precision finishing	TF (M)			CNMG120404-TF	T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	GH110	GT730	GT530	NS730	NS520	NS530	TH10	TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)	
				* CNMG120408-TF																						
	01 (G)			CNMG120404-TF																						TAC External Toolholders (4-14 ~, 4-86) TAC Internal Toolholders (5-33 ~)
				CNMG120408-TF																						
				CNMG120402-01																						J-series (8-20)
				CNMG120404-01																						
				* CNMG120408-01																						
	C (G)			CNMG120404R-C																						TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
				CNMG120404L-C																						
				* CNMG120408R-C																						
			CNMG120408L-C																							
Finishing	TSF (M)			CNMG120404-TSF																						
				* CNMG120408-TSF																						
				CNMG120412-TSF																						
	SF (M)			CNMG090304-SF																					TAC External Toolholders (4-14 ~, 4-86) TAC Internal Toolholders (5-33 ~)	
				CNMG090308-SF																						
				CNMG120404-SF																						J-series (8-20)
			* CNMG120408-SF																							
			CNMG120412-SF																							

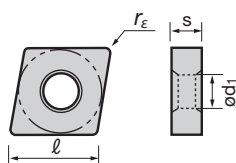
Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole



CN



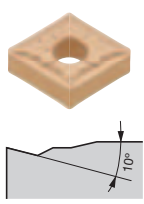
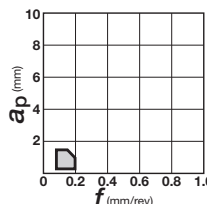

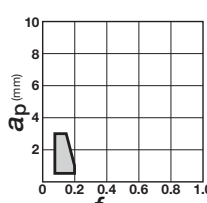
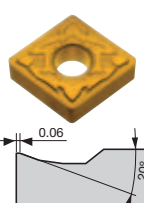
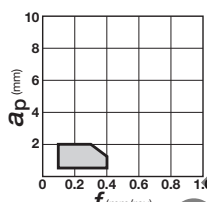
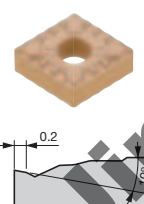
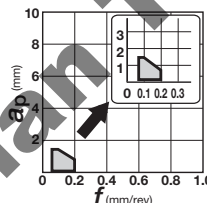
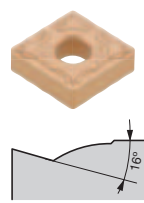
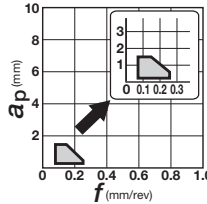
CNMG 12 04 04 -

Cutting edge length (ℓ) Thickness (s) Corner radius (r_e) Chipbreaker symbol

CN	0903	1204	1606	1906	2509
ød1 (mm)	3.81	5.16	6.35	7.93	9.12

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)							
	Appearance (Cross section)			Coated										Coated cermet		Cermet								
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125		GH330	GT720	GT730	GT530	NS730	NS520	NS530
Finishing	TS (M) 		CNMG120404-TS *CNMG120408-TS CNMG120412-TS	●	●	●	●	▲										●		▲	▲	▲	▲	TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
	SS (M) 		CNMG120404-SS *CNMG120408-SS CNMG120412-SS					●	●	●	●	●				●								
	CF (M) 		CNMG120404-CF CNMG120408-CF *CNMG120412-CF									●	●											
	ZF (M) 		CNMG120404-ZF *CNMG120408-ZF CNMG120412-ZF	●	●													●	●		●			
	NS (M) 		CNMG120404-NS *CNMG120408-NS		●	●																	●	●

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

C
D
S
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TAC Inserts, Negative

2

TAC Inserts

C

D

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Y

R

K

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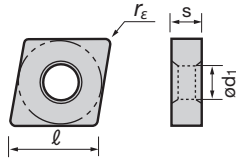
Rhombic, with hole

80°



Negative

CN



CNMG 12 04 04 -

Cutting edge length (ℓ) Thickness (s) Corner radius (r_E) Chipbreaker symbol

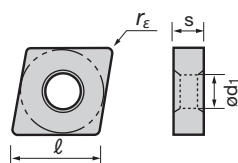
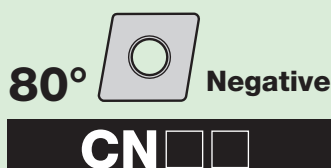
CN	0903	1204	1606	1906	2509
ød1 (mm)	3.81	5.16	6.35	7.93	9.12

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)				
	Appearance (Cross section)			Coated						Coated cermet		Cermet		Uncoated						
				T9105	T9115	T9125	T9135	T6120	T6130	GH330		GT720	GT730		NS730	NS530		TH10		
Finishing	AFW (M)		CNMG120404-AFW	●	●	●							●			●				TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
			* CNMG120408-AFW	●	●	●	●						●							
	11 (M)		CNMG120404-11							▲						▲	●		●	
			* CNMG120408-11										●			▲	●		●	
Finishing of mild steels	17 (M)		CNMG120404-17														●			
			* CNMG120408-17														●			
High feed, small depth of cutting	ASW (M)		* CNMG120408-ASW	●	●	●											●			
			CNMG120412-ASW	●	●	●											●			
	AS (M)		CNMG120404-AS	●	●	●											●			
			* CNMG120408-AS	●	●	●	●										●			
			CNMG120412-AS		●	●	●													

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

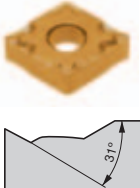
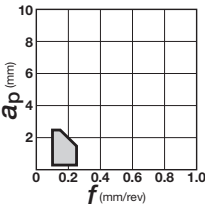
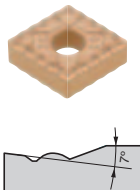
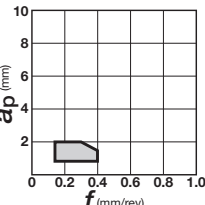
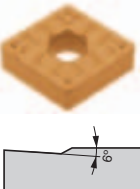
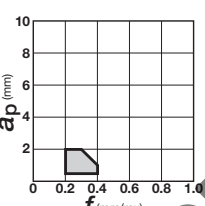
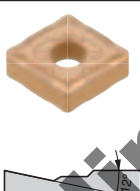
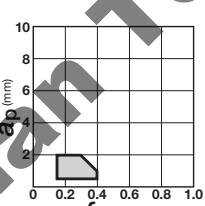
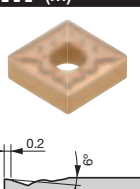
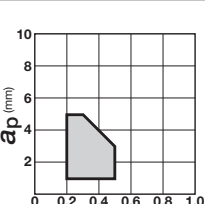
Rhombic, with hole



CNMG 12 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

CN	0903	1204	1606	1906	2509
ød1 (mm)	3.81	5.16	6.35	7.93	9.12

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)
	Appearance (Cross section)			Coated						Coated cermet	Cermet					
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	GT730	GT530	NS530		
Boring (Double sided chipbreaker)	CB (M) 		CNMG090304-CB *CNMG090308-CB										●		●	TAC External Toolholders (4-15 ~) TAC Internal Toolholders (5-33 ~)
													●			
Finishing to medium cutting	ZM (M) 		*CNMG120408-ZM CNMG120412-ZM CNMG120416-ZM	●	●	●						●	●			TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
	27 (M) 		CNMG120404-27 *CNMG120408-27												●	
	NM (M) 		CNMG120408-NM *CNMG120412-NM	●	●	●									●	
	TM (M) 		CNMG090304-TM CNMG090308-TM CNMG120404-TM *CNMG120408-TM CNMG120412-TM CNMG120416-TM CNMG160612-TM CNMG190608-TM CNMG190612-TM	●	●	●										

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

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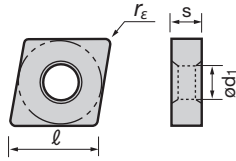
Rhombic, with hole

80°



Negative

CN

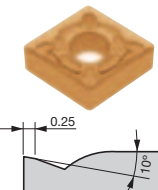
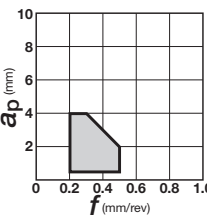
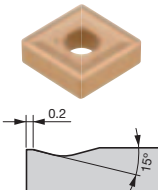
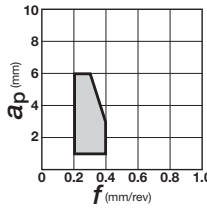
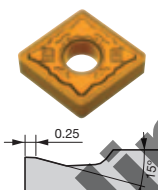
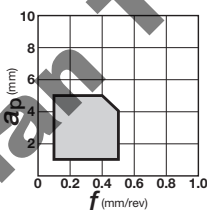
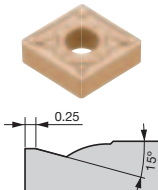
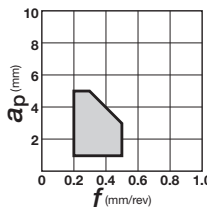


CNMG 12 04 04 -



Cutting edge length (ℓ) Thickness (s) Corner radius (r_E) Chipbreaker symbol

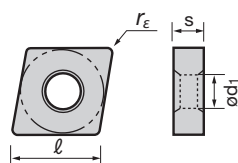
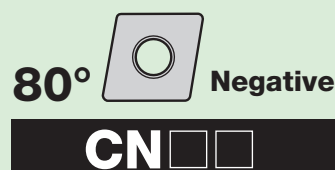
CN	0903	1204	1606	1906	2509
ød1 (mm)	3.81	5.16	6.35	7.93	9.12

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																			Applicable toolholders (pages)		
	Appearance (Cross section)			Coated														Coated cermet	Cermet	Un-coated					
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	AH110	AH120	GT720	GT730	NS730	NS520		NS530	TH10
Medium cutting	SM (M) 		CNMG120404-SM *CNMG120408-SM CNMG120412-SM					●	●	●	●	●													TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
	All-round (M) 		CNMG090304 CNMG090308 CNMG120404 *CNMG120408 CNMG120412 CNMG120416 CNMG160608 CNMG160612 CNMG160616 CNMG190608 CNMG190612 CNMG190616	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	TAC External Toolholders (4-14 ~, 4-86) TAC Internal Toolholders (5-33 ~) J-series (8-20)
	CM (M) 		CNMG120404-CM CNMG120408-CM *CNMG120412-CM CNMG160608-CM CNMG160612-CM											●	●	●									TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
	DM (M) 		CNMG120404-DM *CNMG120408-DM CNMG120412-DM CNMG120416-DM	●	●	●	●																		

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole



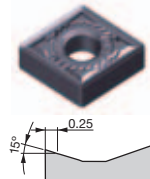
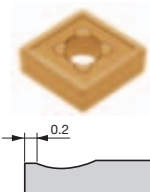
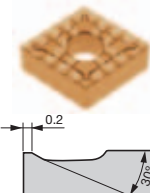
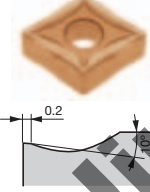
CNMG 12 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

CN	0903	1204	1606	1906	2509
ød1 (mm)	3.81	5.16	6.35	7.93	9.12

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)	
	Appearance (Cross section)			Coated					Coated cermet	Cermet		Uncoated			
Medium cutting	HMM (M)		CNMG120404-HMM * CNMG120408-HMM CNMG120412-HMM CNMG160608-HMM CNMG160612-HMM CNMG160616-HMM	T6120	T6130	T5105	T5115	AH110	AH905	GH330	GT720	NS520	NS530	TH10	TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
	33 (M)		* CNMG120408-33												
	37 (M)		CNMG120404-37 * CNMG120408-37 CNMG120412-37												
	38 (M)		CNMG120404-38 * CNMG120408-38												

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

C

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TAC Inserts, Negative

2

TAC Inserts

C

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H

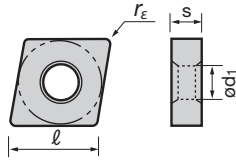
Rhombic, with hole

80°



Negative

CN



CNMG 12 04 04 -



Cutting edge length (l) Thickness (s) Corner radius (r_E) Chipbreaker symbol

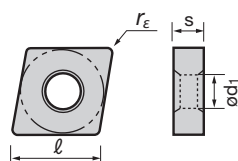
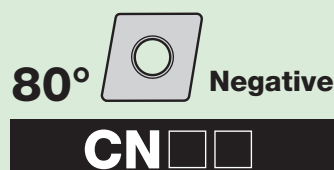
CN	0903	1204	1606	1906	2509
ød1 (mm)	3.81	5.16	6.35	7.93	9.12

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)						
	Appearance (Cross section)			Coated										Coated cermet		Cermet		Un-coated					
Medium cutting	SA (M)			CNMG120404-SA	T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	AH120	GH110	GH330	GT720	GT730	NS530	TH10	KS20	TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
			*CNMG120408-SA																				
			CNMG120412-SA																				
			CNMG190612-SA																				
			CNMG190616-SA																				
	S (M)			CNMG120404R-S																			
			CNMG120404L-S																				
			*CNMG120408R-S																				
			CNMG120408L-S																				
	P (G)			CNMG120404R-P																			
			CNMG120404L-P																				
			*CNMG120408R-P																				
			CNMG120408L-P																				
Medium to heavy cutting	THS (M)			CNMG120408-THS																		TAC External Toolholders (4-14 ~)	
			CNMG120412-THS																				
			CNMG120416-THS																				
			*CNMG160612-THS																				
			CNMG160616-THS																				
			CNMG190612-THS																				
			CNMG190616-THS																				
			CNMG190624-THS																				
			CNMG250924-THS																				
	TH (M)			*CNMG120408-TH																			TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
			CNMG120412-TH																				
			CNMG120416-TH																				
			CNMG160612-TH																				
		CNMG160616-TH																					
		CNMG190612-TH																					
		CNMG190616-TH																					

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole



CNMG 12 04 04 -

Cutting edge length (ℓ) Thickness (s) Corner radius (r_E) Chipbreaker symbol

CN 	0903 	1204 	1606 	1906 	2509
ød1 (mm)	3.81	5.16	6.35	7.93	9.12

Application	Chipbreaker	$f \sim a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)		
	Appearance (Cross section)			Coated												
				T9105	T9115	T9125	T9135	T6120	T6130	AH630	AH645	T5105	T5115	T5125		
Medium to heavy cutting	SH (M)		CNMG120408-SH						●	●	●					TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33)
			CNMG120412-SH						●	●	●					
			CNMG120416-SH						●	●	●					
			*CNMG160612-SH						●	●	●					
			CNMG160616-SH						●	●	●					
			CNMG190612-SH						●	●	●					
			CNMG190616-SH						●	●	●					
			CNMG120404-CH									●	●	●		
			CNMG120408-CH									●	●	●		
			*CNMG120412-CH									●	●	●		
Medium to heavy cutting	CH (M)		CNMG120404-CH									●	●	●		TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
			CNMG120408-CH									●	●	●		
			*CNMG120412-CH									●	●	●		
			CNMG160612-CH									●	●	●		
			CNMG160616-CH									●	●	●		
			CNMG190612-CH									●	●	●		
			CNMG190616-CH									●	●	●		
			CNMM120408-TRS	●	●	●										
			CNMM120412-TRS	●	●	●										
			*CNMM160612-TRS	●	●	●										
Medium to heavy cutting (Single sided)	TRS (M)		CNMM160616-TRS	●	●	●										TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
			CNMM190616-TRS	●	●	●										
			CNMM190624-TRS	●	●	●										
			CNMM250924-TRS	●	●	●										
			*CNMM190608-TUS	●	●											
			CNMM190612-TUS	●	●	●										
			CNMM190616-TUS	●	●	●										
			CNMM190624-TUS	●	●	●										
			CNMM190632-TUS	●	●											
			CNMM250916-TUS	●	●	●										
Heavy cutting (Single sided)	TUS (M)		CNMM250924-TUS	●	●	●										TAC External Toolholders (4-14 ~)
			CNMM250932-TUS	●	●											
			CNMM190612-TU		●	●										
			*CNMM190616-TU		●	●										
			CNMM190624-TU	●	●	●										
			CNMM250724-TU													
			CNMM250924-TU		●	●										
			CNMM190612-TU		●	●										
			*CNMM190616-TU		●	●										
			CNMM190624-TU	●	●	●										

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, Negative

2

TAC Inserts

C

D

S

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W

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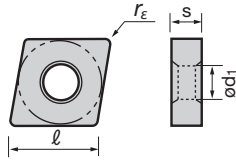
Rhombic, with hole

80°



Negative

CN



CNMA 12 04 04

Cutting edge length (l) Thickness (s) Corner radius (rE)

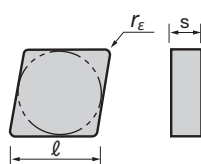
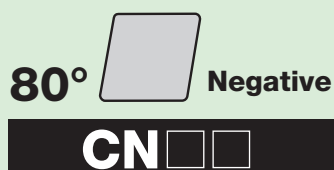
CN	0903	1204	1606	1906	2509
ød1 (mm)	3.81	5.16	6.35	7.93	9.12

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades														Applicable toolholders (pages)
	Appearance (Cross section)			Coated						Cermet		Uncoated	Ceramics					
				T9105	T9115	T9125	T9135	T5105	T5115	T5125	NS520	NS530	TH10	FX105	LX21	LX11		
Finishing to medium cutting	- (M)			CNMA120404														TAC External Toolholders (4-14 ~) TAC Internal Toolholders (5-33 ~)
				CNMA120408	●					▲		●		●				
				CNMA120412	●							●		●				
				CNMA120416	●							●		●				
				CNMA160608								●		●				
				CNMA160612								●		●				
				CNMA160616								●		●				
				CNMA190612								●		●				
				CNMA190616								●		●				
	Wiper (M)			CNMA120408W										●				
				CNMA120412W										●				
				CNMA120416W										●				
	- (G)			CNGA120404							●			●	●			
				CNGA120408							●			●	●			
				CNGA120412										●	●			
				CNGA120416										●	●			
				CNGA120420											●			

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, without hole

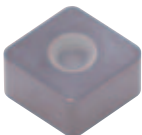

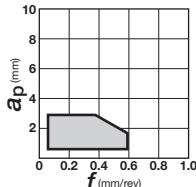
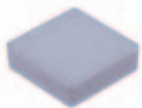

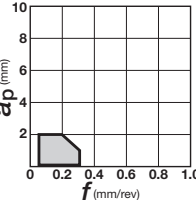
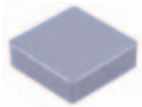

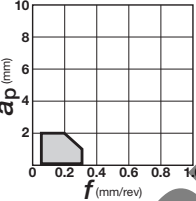


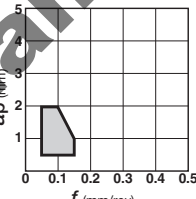


CNMN 12 04 04

Cutting edge length (l) Thickness (s) Corner radius (r_e)

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades				Applicable toolholders (pages)								
	Appearance (Cross section)			Ceramics												
Finishing to medium cutting	<div>- (G)</div> <div></div> <div></div>		CNGD120712 CNGD120716	● ●	● ●	● ●	● ●									TAC External Toolholders (4-36)
	<div>- (M)</div> <div></div> <div></div>		CNMN120408 CNMN120412	● ●	● ●	● ●	● ●									TAC External Toolholders (4-46)
	<div>- (G)</div> <div></div> <div></div>		CNGN120404 CNGN120408 CNGN120412 CNGN120416 CNGN120420 CNGN120708 CNGN120712 CNGN120716 CNGN120720	● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ●									
	<div>- (G)</div> <div></div> <div></div>		CNGX120708 CNGX120712 CNGX120716	● ● ●	● ● ●	● ● ●	● ● ●									

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

C

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K

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TAC Inserts, Negative

2

TAC Inserts

C

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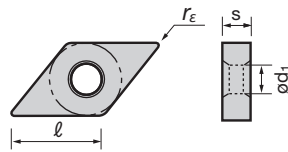
K

H

Rhombic, with hole

55° Negative

DN



DNMG 15 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_E) Chipbreaker symbol

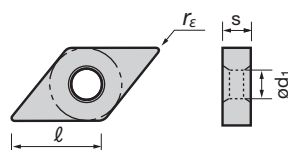
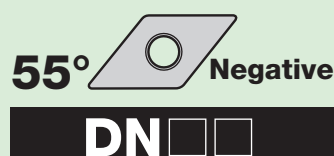
DN	1104	1504	1506
ød1 (mm)	3.81	5.16	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)					
	Appearance (Cross section)			Coated								Coated cermet	Cermet	Uncoated											
Precision finishing	TF (M)			DNMG150404-TF	T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	GH110	GH330	GT720	GT730	GT530	NS730	NS520	NS530	TH10	KS20	TAC External Toolholders (4-18 ~) TAC Internal Toolholders (5-34 ~)
				*DNMG150408-TF																					
Precision finishing	01 (G)			DNMG110402-01																					TAC External Toolholders (4-18 ~, 4-86)
				DNMG110404-01																					TAC Internal Toolholders (5-34 ~)
				DNMG110408-01																					
				DNMG150402-01																					J-series (8-20)
				DNMG150404-01																					
			*DNMG150408-01																						
Finishing	TSF (M)			DNMG150404-TSF	●	●	●	●	●									●		●					TAC External Toolholders (4-18 ~)
				*DNMG150408-TSF	●	●	●	●	●									●		●					TAC Internal Toolholders (5-34 ~)
				DNMG150412-TSF	●	●	●	●																	
				DNMG150604-TSF		●	●											●							
				DNMG150608-TSF	●	●	●	●										●							
				DNMG150612-TSF	●	●	●	●																	
	SF (M)			DNMG150404-SF						●	●	●													
				*DNMG150408-SF						●	●	●													
				DNMG150604-SF						●	●	●													
				DNMG150608-SF						●	●	●													
	TS (M)			DNMG150404-TS		●	●	●		▲									●		▲	●			
				*DNMG150408-TS		●	●	●	●	▲									●		▲	●			
				DNMG150412-TS		●	●	●	●												▲	●			
				DNMG150604-TS																	▲	●			
			DNMG150608-TS		●	●														▲	●				
			DNMG150612-TS		●	●														▲	●				

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole



DNMG 15 04 04 -

Cutting edge length (ℓ) Thickness (s) Corner radius (r_E) Chipbreaker symbol

DN	1104	1504	1506
ød1 (mm)	3.81	5.16	5.16

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	Appearance (Cross section)			Coated										Coated cermet	Cermet	Un- coated																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				T9105 T9115 T9125 T9135 T6020 T6030 T6120 T6130 AH630 AH645 T5105 T5115 T5125 GH330 GT730 GT530 NS730 NS520 NS530 TH10 KS20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Finishing	SS (M)	 	 a_p (mm) f (mm/rev)	DNMG150404-SS DNMG150408-SS *DNMG150412-SS DNMG150604-SS DNMG150608-SS DNMG150612-SS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

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TAC Inserts, Negative

2

TAC Inserts

C

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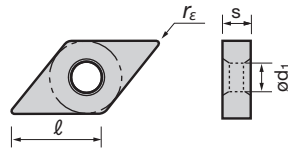
K

H

Rhombic, with hole

55° Negative

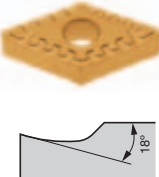
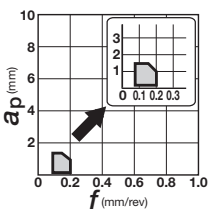
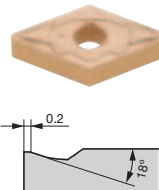
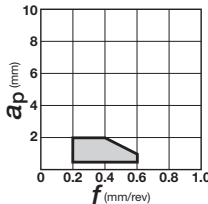
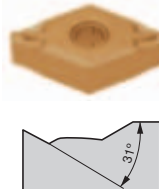
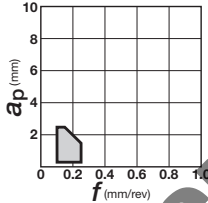
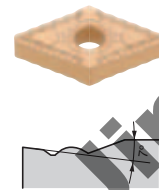
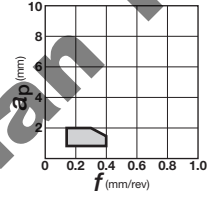
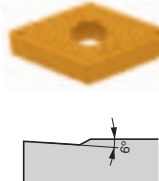
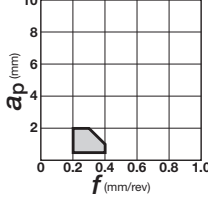
DN



DNMG 15 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_E) Chipbreaker symbol

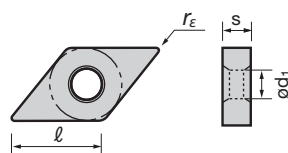
DN	1104	1504	1506
ød1 (mm)	3.81	5.16	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)		
	Appearance (Cross section)			Coated				Coated cermet		Cermet						
				T9105	T9115	T9125	T9135	T6120	T6130		GT730	GT530	NS730	NS530		
Finishing of mild steels	17 (M)		DNMG150404-17 * DNMG150408-17													TAC External Toolholders (4-18 ~) TAC Internal Toolholders (5-34 ~)
																
High feed, small depth of cut	AS (M)		DNMG150404-AS * DNMG150408-AS DNMG150412-AS DNMG150604-AS DNMG150608-AS DNMG150612-AS													
																
Boring (Double sided chipbreaker)	CB (M)		DNMG110404-CB * DNMG110408-CB													TAC External Toolholders (4-18 ~, 4-86) TAC Internal Toolholders (5-34 ~) J-series (8-20)
																
Finishing to medium cutting	ZM (M)		* DNMG150408-ZM DNMG150412-ZM DNMG150416-ZM DNMG150608-ZM DNMG150612-ZM DNMG150616-ZM													TAC External Toolholders (4-18 ~) TAC Internal Toolholders (5-34 ~)
																
Finishing to medium cutting	27 (M)		DNMG150404-27 * DNMG150408-27													
																

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole



DNMG 15 04 04 -

Cutting edge length (ℓ) Thickness (s) Corner radius (r_E) Chipbreaker symbol

DN <input type="text"/>	1104 <input type="text"/>	1504 <input type="text"/>	1506 <input type="text"/>
ød1 (mm)	3.81	5.16	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																	Applicable toolholders (pages)						
	Appearance (Cross section)			Coated										Coated cermet	Cermet	Un-coated											
Finishing to medium cutting	NM (M)		* DNMG150408-NM	T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	AH110	AH120	GT730			NS730	NS520	NS530	TH10	TAC External Toolholders (4-18 ~)	
			DNMG150412-NM																							TAC Internal Toolholders (5-34 ~)	
			DNMG150608-NM																								
			DNMG150612-NM																								
Medium cutting	TM (M)		DNMG110404-TM																							TAC External Toolholders (4-18 ~, 4-86)	
			DNMG110408-TM																							TAC Internal Toolholders (5-34 ~)	
			DNMG150404-TM																							J-series (8-20)	
			* DNMG150408-TM																								
			DNMG150412-TM																								
			DNMG150416-TM																								
			DNMG150604-TM																								
			DNMG150608-TM																								
			DNMG150612-TM																								
			DNMG150616-TM																								
			DNMG150404-SM																							TAC External Toolholders (4-18 ~)	
			* DNMG150408-SM																							TAC Internal Toolholders (5-34 ~)	
			DNMG150412-SM																								
			DNMG150604-SM																								
			DNMG150608-SM																								
			DNMG150612-SM																								
	All-round (M)		DNMG110404																							TAC External Toolholders (4-18 ~, 4-86)	
			DNMG110408																							TAC Internal Toolholders (5-34 ~)	
			DNMG150404																							J-series (8-20)	
			* DNMG150408																								
			DNMG150412																								
			DNMG150416																								
			DNMG150604																								
			DNMG150608																								
			DNMG150612																								
			DNMG150616																								

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

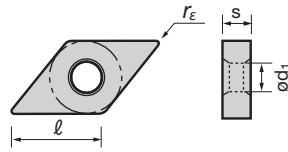
TAC Inserts, Negative

Rhombic, with hole

55°

Negative

DN



DNMG 15 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

DN <input type="text"/>	1104 <input type="text"/>	1504 <input type="text"/>	1506 <input type="text"/>
ød1 (mm)	3.81	5.16	5.16

TAC Inserts

C

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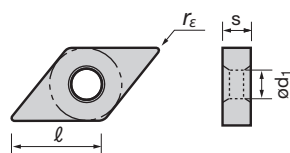
Medium cutting

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)			
	Appearance (Cross section)			Coated										Cermet	Uncoated					
				T9105	T9115	T9125	T9135	T6120	T6130	T5105	T5115	T5125	AH110	AH905	GH110	GH330	NS530		TH10	
CM (M)			DNMG150404-CM							●	●	●								
			DNMG150408-CM							●	●	●								
			DNMG150412-CM							●	●	●								
			DNMG150604-CM							●	●	●								
			DNMG150608-CM							●	●	●								
			DNMG150612-CM							●	●	●								
DM (M)			DNMG150404-DM																	
			*DNMG150408-DM	●	●	●														
			DNMG150412-DM	●	●	●	●													
			DNMG150416-DM																	
			DNMG150604-DM	●																
			DNMG150608-DM	●	●	●														
			DNMG150612-DM	●	●	●	●													
			DNMG150616-DM	●																
HMM (M)			DNMG150404-HMM										●							
			*DNMG150408-HMM										●							
			DNMG150412-HMM										●							
33 (M)			DNMG150404-33										●							
			*DNMG150408-33										●						●	

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

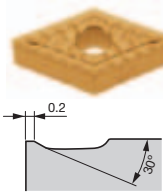
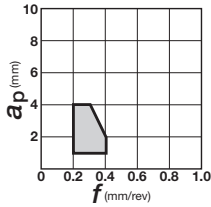
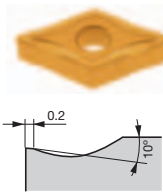
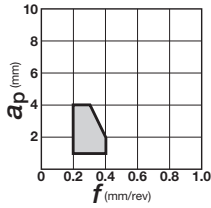
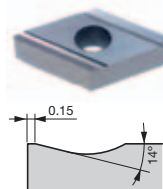
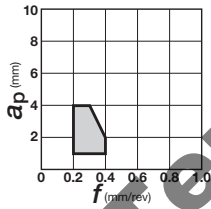
Rhombic, with hole



DNMG 15 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

DN <input type="text"/> <input type="text"/>	1104 <input type="text"/> <input type="text"/>	1504 <input type="text"/> <input type="text"/>	1506 <input type="text"/> <input type="text"/>
ød1 (mm)	3.81	5.16	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades								Applicable toolholders (pages)			
	Appearance (Cross section)			Coated		Coated cermet	Cermet								
Medium cutting	37 (M)			DNMG150404-37 *DNMG150408-37 DNMG150412-37	T6120 T6130 GH330			GT530		NS730 NS530					TAC External Toolholders (4-18 ~) TAC Internal Toolholders (5-34 ~)
	38 (M)			*DNMG150408-38											
	Parallel (G)			DNGG150404R DNGG150404L *DNGG150408R DNGG150408L											

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Jinan Tenth CNC Tool Co., Ltd.

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

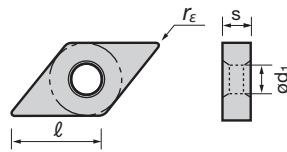
H

Rhombic, with hole

55°

Negative

DN

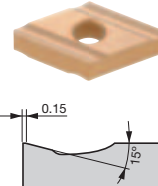
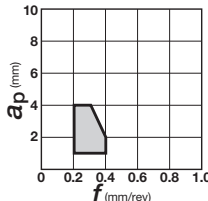
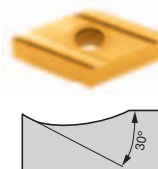
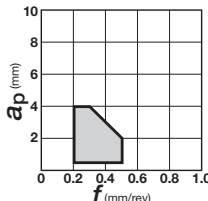
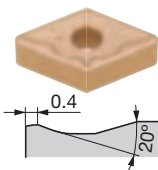
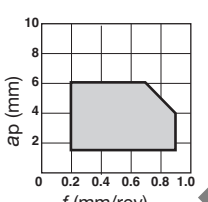


DNMG 15 04 04 -



Cutting edge length (l) Thickness (s) Corner radius (r_E) Chipbreaker symbol

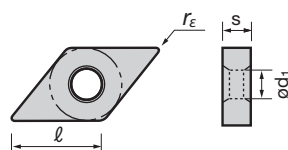
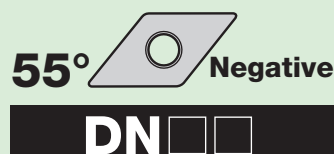
DN	1104	1504	1506
ød1 (mm)	3.81	5.16	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)						
	Appearance (Cross section)			Coated										Coated cermet	Cermet	Un-coated							
				T9105	T9115	T9125	T9135	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	GH110		GH330	GT730		NS730	NS630	TH10
Medium cutting	S (M) 		DNMG150404R-S																				TAC External Toolholders (4-18 ~) TAC Internal Toolholders (5-34 ~)
			DNMG150404L-S																				
			*DNMG150408R-S																				
			DNMG150408L-S																				
			DNMG150604R-S																				
			DNMG150604L-S																				
			DNMG150608R-S																				
			DNMG150608L-S																				
Medium to heavy cutting	P (G) 		DNGG150402R-P																				
			DNGG150402L-P																				
			*DNGG150404R-P																				
			DNGG150404L-P																				
			DNGG150408R-P																				
			DNGG150408L-P																				
			DNMG150408-THS																				
			DNMG150412-THS																				
Medium to heavy cutting	THS (M) 		DNMG150416-THS																				
			DNMG150608-THS																				
			*DNMG150612-THS																				
			DNMG150616-THS																				
			*DNMG150408-TH																				
			DNMG150412-TH																				
			DNMG150416-TH																				
			DNMG150608-TH																				
			DNMG150612-TH																				
			DNMG150616-TH																				
			DNMG150408-SH																				
			*DNMG150412-SH																				
			DNMG150416-SH																				
			DNMG150608-SH																				
			DNMG150612-SH																				
			DNMG150404-CH																				
		DNMG150408-CH																					
		*DNMG150412-CH																					
		DNMG150604-CH																					
		DNMG150608-CH																					
		DNMG150612-CH																					

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole



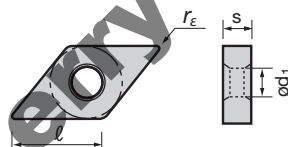
DNMA 15 04 04

Cutting edge length (l) Thickness (s) Corner radius (r_e)

DN <input type="text"/>	1104 <input type="text"/>	1504 <input type="text"/>	1506 <input type="text"/>
ød1 (mm)	3.81	5.16	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)						
	Appearance (Cross section)			Coated			Coated cermet		Cermet		Uncoated		Ceramics									
Finishing to medium cutting	(M)		DNMA150404	T5105	T5115	T5125			GT720	GT730			NS730	NS520		TH10			FX105	LX21	LX11	TAC External Toolholders (4-18 ~) TAC Internal Toolholders (5-34 ~)
		DNMA150408	●	●	●			●				▲			●							
		DNMA150412	●	●	●										●							
		DNMA150604	●	●	●																	
		DNMA150608	●	●	●																	
		DNMA150612	●	●	●																	
	(G)		DNGA150404																			
		DNGA150408																				
		DNGA150412																				
		DNGA150416																				
		DNGA150608																				
		DNGA150612																				
		DNGA150616																				
		DNGA150620																				

Rhombic, with hole



DXGU 07 03 02 R -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Hand Chipbreaker symbol

DXGU	0703 <input type="text"/>
ød1 (mm)	2.7

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades						Applicable toolholders (pages)
	Appearance (Cross section)			Coated	Coated cermet	Cermet				
Finishing (low cutting forces)	SS (G)		DXGU070302R-SS	●	●	●				TAC Internal Toolholders (5-31)
			DXGU070302L-SS	●	●	●				
			DXGU070304R-SS	●	●	●				
			* DXGU070304L-SS	●	●	●				
Finishing to medium cutting	TS (G)		DXGU070302R-TS	●	●	●				
			DXGU070302L-TS	●	●	●				
			DXGU070304R-TS	●	●	●				
			* DXGU070304L-TS	●	●	●				
			DXGU070308R-TS	●	●	●				
			DXGU070308L-TS	●	●	●				

● : Stocked items
▲ : Discontinued items

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

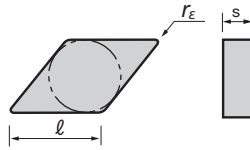
H

Rhombic, without hole

55°

Negative

DN



DNGN 15 04 04

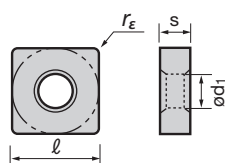
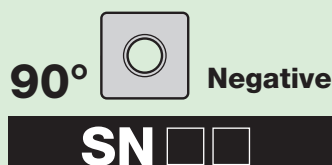
Cutting edge length (l) Thickness (s) Corner radius (r_e)

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Ceramics			Stocked grades												Applicable toolholders (pages)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	Appearance (Cross section)			FX105	LX21	LX11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Square, with hole



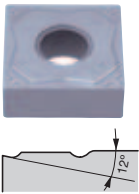
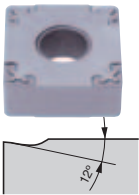
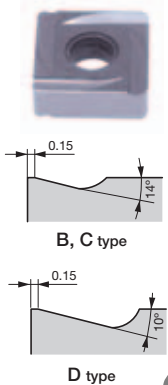
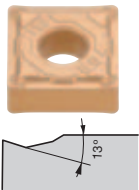
SNMG 12 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

SN	0903	1204	1506	1906	2507(09)	3109
od1 (mm)	3.81	5.16	6.35	7.93	9.12	8.80

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)			
	Appearance (Cross section)			Coated						Coated cermet		Cermet							
Precision finishing	TF (M)		SNMG120404-TF * SNMG120408-TF	T9105	T9115	T9125	T9135	T6120	T6130			GT730	GT530		NS730	NS520	NS530	X407	TAC External Toolholders (4-25 ~) TAC Internal Toolholders (5-36 ~)
	01 (G)		SNGG090302-01 SNGG090304-01 * SNGG090308-01 SNGG120402-01 SNGG120404-01 SNGG120408-01																
	B ~ D (G)		SNGG090304R-B SNGG090304L-B * SNGG090308R-B SNGG090308L-B SNGG120404R-C SNGG120404L-C * SNGG120408R-C SNGG120408L-C * SNGG120408R-D SNGG120408L-D																
Finishing	TSF (M)		SNMG120404-TSF * SNMG120408-TSF SNMG120412-TSF																

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

C
D
S
T
W
V
Y
R
K
H

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

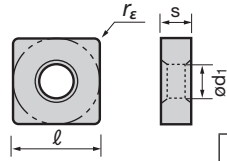
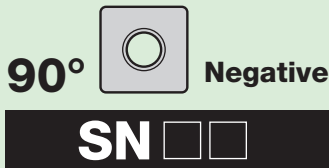
Y

R

K

H

Square, with hole



SNMG 12 04 04 -

Cutting edge length (ℓ) Thickness (s) Corner radius (r_E) Chipbreaker symbol

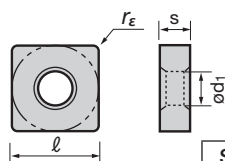
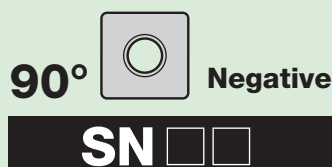
SN	0903	1204	1506	1906	2507(09)	3109
ød1 (mm)	3.81	5.16	6.35	7.93	9.12	8.80

Application	Chipbreaker Appearance (Cross section)	$f - a_p$	Insert Cat. No.	Stocked grades																	Applicable toolholders (pages)		
				Coated												Coated cermet		Cermet					
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	GH330	GT730	GT530	NS730		NS520	NS530
Finishing	SF (M)			SNMG120404-SF * SNMG120408-SF																			TAC External Toolholders (4-25 ~) TAC Internal Toolholders (5-36 ~)
	TS (M)			SNMG120404-TS * SNMG120408-TS SNMG120412-TS																			
	SS (M)			SNMG120404-SS * SNMG120408-SS SNMG120412-SS																			
	CF (M)			SNMG120408-CF * SNMG120412-CF																			
	ZF (M)			SNMG120404-ZF * SNMG120408-ZF SNMG120412-ZF																			

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

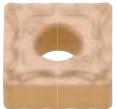
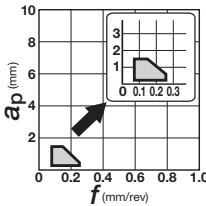

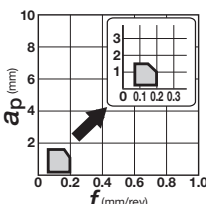
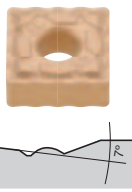
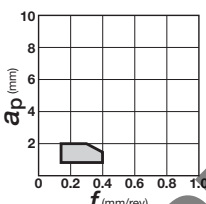

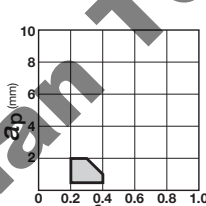
Square, with hole



SNMG 12 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

SN	0903	1204	1506	1906	2507(09)	3109
ød1 (mm)	3.81	5.16	6.35	7.93	9.12	8.80

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)				
	Appearance (Cross section)			Coated			Coated cermet	Cermet			Uncoated							
Finishing	NS (M)	 	SNMG120404-NS * SNMG120408-NS SNMG120412-NS	T9105	T9115	T9125	T9135					GT730		NS730	NS520	NS530	TH10	TAC External Toolholders (4-25 ~) TAC Internal Toolholders (5-36 ~)
	11 (M)	 	SNMG120404-11 SNMG120408-11 * SNMG120412-11															
	ZM (M)	 	* SNMG120408-ZM SNMG120412-ZM SNMG120416-ZM															
	27 (M)	 	* SNMG120408-27															
Finishing to medium cutting																		

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

H

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

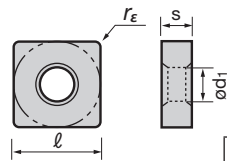
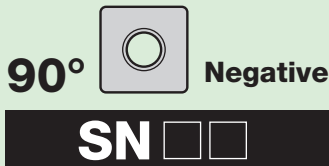
Y

R

K

H

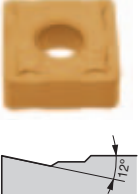
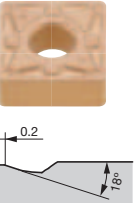
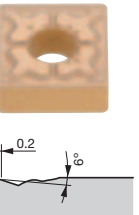
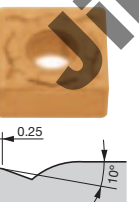
Square, with hole



SNMG 12 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_E) Chipbreaker symbol

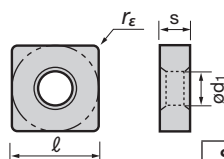
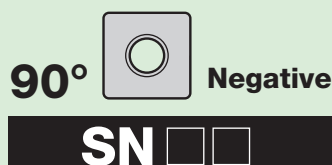
SN	0903	1204	1506	1906	2507(09)	3109
ød1 (mm)	3.81	5.16	6.35	7.93	9.12	8.80

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)						
	Appearance (Cross section)			Coated												Coated cermet	Cermet	Un-coated								
Finishing to medium cutting	NM (M)		* SNMG120412-NM	T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	AH110	AH120	GT720	GT730	NS730	NS520	NS530	TH10	TAC External Toolholders (4-25 ~) TAC Internal Toolholders (5-36 ~)	
	AS (M)		SNMG120404-AS * SNMG120408-AS SNMG120412-AS	●	●																		●			
Medium cutting	TM (M)		SNMG090304-TM SNMG090308-TM SNMG120404-TM * SNMG120408-TM SNMG120412-TM SNMG120416-TM SNMG150608-TM SNMG150612-TM SNMG190608-TM SNMG190612-TM	●	●	●																				
	SM (M)		* SNMG120408-SM SNMG120412-SM					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items


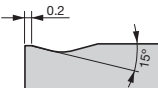
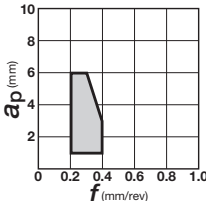

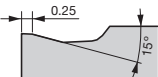
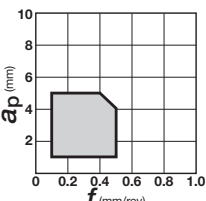

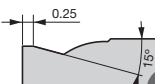
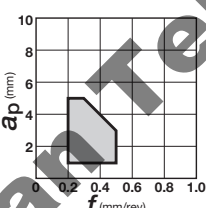

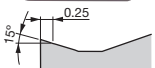
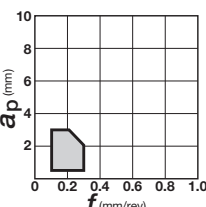
Square, with hole



SNMG 12 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

SN	0903	1204	1506	1906	2507(09)	3109
phi d1 (mm)	3.81	5.16	6.35	7.93	9.12	8.80

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)			
	Appearance (Cross section)			Coated										Coated cermet		Cermets		Uncoated					
Medium cutting	All-round (M)	 		SNMG090304	T9105	T9115	T9125	T9135	T6120	T6130	T5105	T5115	T5125	AH110	AH120	AH905	GT720	GT730	NS730	NS520	NS530	TH10	TAC External Toolholders (4-25 ~)
				SNMG090308																			TAC Internal Toolholders (5-36 ~)
				SNMG120404																			
				* SNMG120408																			
				SNMG120412																			
				SNMG120416																			
				SNMG120420																			
				SNMG150612																			
				SNMG150616																			
				SNMG190612																			
				SNMG190616																			
				SNMG250724																			
		CM (M)	 		SNMG120408-CM																		
					* SNMG120412-CM																		
	DM (M)	 		SNMG120404-DM																			
				* SNMG120408-DM																			
				SNMG120412-DM																			
	HMM (M)	 		* SNMG120408-HMM																			
				SNMG120412-HMM																			

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

H

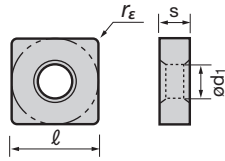
Square, with hole

90°



Negative

SN

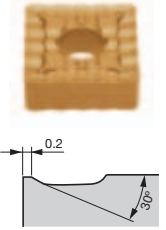
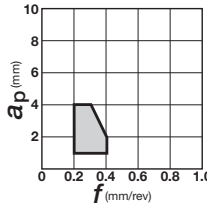
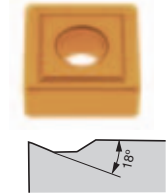
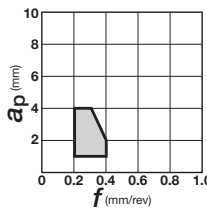
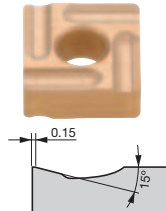
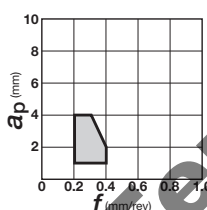

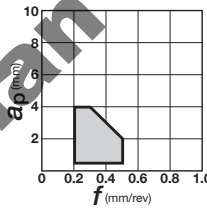


SNMG 12 04 04 -



Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

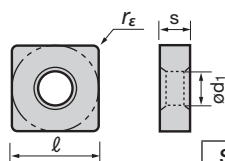
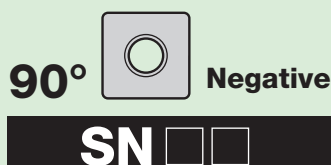
SN	0903	1204	1506	1906	2507(09)	3109
ød1 (mm)	3.81	5.16	6.35	7.93	9.12	8.80

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)					
	Appearance (Cross section)			Coated										Coated cermet		Cermet		Un-coated				
				T9015	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	AH120	GH110	GH330		GT720	GT730	NS530		IH10
Medium cutting	37 (M) 		SNMG120404-37 * SNMG120408-37															●				TAC External Toolholders (4-25 ~) TAC Internal Toolholders (5-36 ~)
	SA (M) 		* SNMG120404-SA SNMG120408-SA SNMG120412-SA SNMG190612-SA			●	●	●	●	●	●	●								●		
	S (M) 		SNMG120404R-S SNMG120404L-S * SNMG120408R-S SNMG120408L-S SNMG120412R-S SNMG120412L-S	●	●		●	●	●	●								●				
	P (G) 		SNGG090304R-P SNGG090304L-P * SNGG090308R-P SNGG090308L-P SNGG120404R-P SNGG120404L-P SNGG120408R-P SNGG120408L-P									●	●					●		●	●	
												●								●	●	
												●								●	●	
												●								●	●	
												●								●	●	
												●								●	●	
												●								●	●	

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

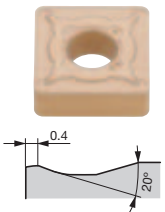
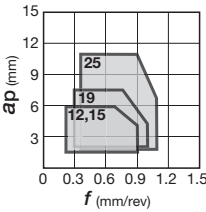
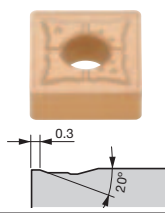
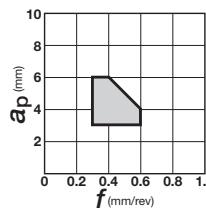
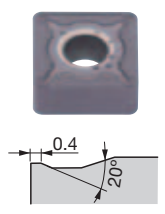
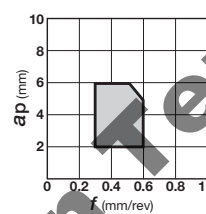
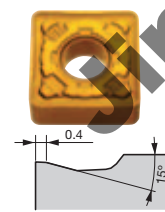
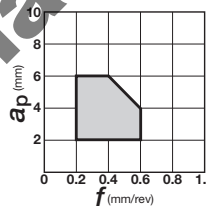
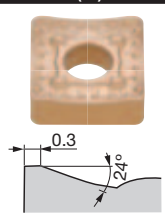
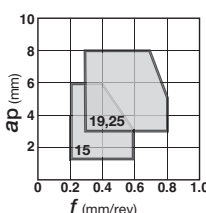
Square, with hole



SNMG 12 04 08 -

Cutting edge length (l) Thickness (s) Corner radius (re) Chipbreaker symbol

SN	0903	1204	1506	1906	2507(09)	3109
od1 (mm)	3.81	5.16	6.35	7.93	9.12	8.80

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																	Applicable toolholders (pages)	
	Appearance (Cross section)			Coated										Cermet	Uncoated							
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645		T5105	T5115	T5125	GH110	GH330	NS530		TH10
Medium to heavy cutting	THS (M)		SNMG120408-THS	●	●	●																TAC External Toolholders (4-25 ~) TAC Internal Toolholders (5-36 ~)
			SNMG120412-THS	●	●	●																
			SNMG150612-THS	●	●																	
			SNMG150616-THS	●	●																	
			*SNMG190608-THS	●	●	●																
			SNMG190612-THS	●	●	●																
			SNMG190616-THS	●	●	●																
			SNMG190624-THS	●	●	●																
			SNMG250716-THS	●	●	●																
			SNMG250724-THS	●	●	●																
Medium to heavy cutting	TH (M)		*SNMG120408-TH	●	●	●																
			SNMG120412-TH	●	●	●																
			SNMG150612-TH	●	●	●																
			SNMG150616-TH	●	●	●																
			SNMG190612-TH	●	●	●																
			SNMG190616-TH	●	●	●																
Medium to heavy cutting	SH (M)		SNMG120408-SH							●	●	●										
			SNMG120412-SH							●	●	●										
			*SNMG150612-SH							●	●	●										
			SNMG150616-SH							●	●	●										
			SNMG190612-SH							●	●	●										
			SNMG190616-SH							●	●	●										
Heavy cutting (Single sided)	CH (M)		SNMG120408-CH											●	●	●						
			*SNMG120412-CH											●	●	●						
			SNMG120416-CH											●	●	●						
Heavy cutting (Single sided)	TRS (M)		SNMM150612-TRS	●	●	●																TAC External Toolholders (4-25 ~)
			SNMM150616-TRS	●	●	●																
			*SNMM190616-TRS	●	●	●																
			SNMM190624-TRS	●	●	●																
			SNMM250924-TRS	●	●	●																

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

H

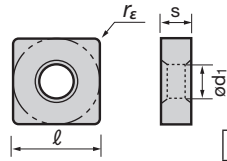
Square, with hole

90°



Negative

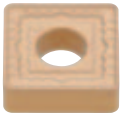
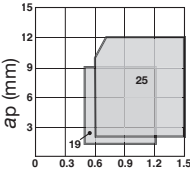
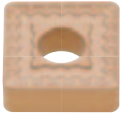
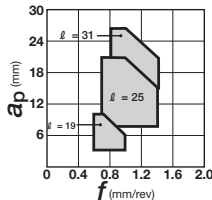

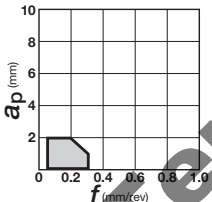

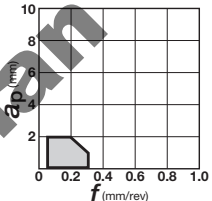
SN



SNMA 12 04 04

Cutting edge length (l) Thickness (s) Corner radius (r_e)

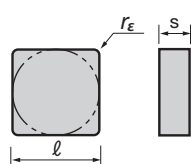
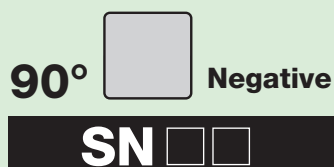
SN	0903	1204	1506	1906	2507(09)	3109
ød1 (mm)	3.81	5.16	6.35	7.93	9.12	8.80

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades															Applicable toolholders (pages)
	Appearance (Cross section)			Coated						Coated cermet	Cermet	Uncoated	Ceramics						
				T9105	T9115	T9125	T9135	T5105	T5115	T5125	GT720	GT730	NS520	NS530	TH10	FX105	LX21	LX11	
Heavy cutting (Single sided)	TUS (M)  	* SNMM190612-TUS	●	●	●													TAC External Toolholders (4-25 ~)	
	SNMM190616-TUS	●	●	●															
	SNMM190624-TUS	●	●	●															
	SNMM250724-TUS	●	●	●															
	SNMM250732-TUS	●	●																
	SNMM250924-TUS	●	●	●															
	SNMM250932-TUS	●	●																
Heavy cutting (Double sided)	TU (M)  	SNMM190612-TU				●											TAC External Toolholders (4-25 ~)		
	* SNMM190616-TU				●														
	SNMM190624-TU			●	●														
	SNMM250724-TU			●	●														
	SNMM250924-TU			●	●														
	SNMM310924-TU																		
Finishing to medium cutting	- (M)  	SNMA090308							●				●				TAC External Toolholders (4-25 ~) TAC Internal Toolholders (5-36 ~)		
	SNMA120404				●	●	●		●										
	SNMA120408				●	●	●			▲		●		●					
	SNMA120412				●	●	●			▲		●		●					
	SNMA120416				●	●	●												
Finishing to fine cutting	- (G)  	SNGA090304							●				●				TAC External Toolholders (4-25 ~) TAC Internal Toolholders (5-36 ~)		
	SNGA120404								●		●		●			●			
	SNGA120408									●		●		●		●			
	SNGA120412											●		●		●			
	SNGA120416												●		●				

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Square, without hole



SNGN 12 04 04

Cutting edge length (l) Thickness (s) Corner radius (r₂)

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades						Applicable toolholders (pages)	
	Appearance (Cross section)			Uncoated		Ceramics					
Finishing to medium cutting	<div>(G)</div> <div></div>	<div></div>	SNGD120712 SNGD120716	TH10	KS20		FX105	LX21	LX11	CX710	TAC External Toolholders (4-36)
	<div>(G)</div> <div></div>	<div></div>	SNGN090308 SNGN120304 SNGN120312 SNGN120404 SNGN120408 SNGN120412 SNGN120416 SNGN120420 SNGN120424 SNGN120708 SNGN120712 SNGN120716 SNGN120720							TAC External Toolholders (4-50 ~)	
	<div>(M)</div> <div></div>	<div></div>	SNMN120408 SNMN120412 SNMN120416 SNMN120420 SNMN120424 SNMN190412								
	<div>(G)</div> <div></div>	<div></div>	SNGX120708 SNGX120712 SNGX120716								
	Finishing to roughing	<div>(G)</div> <div></div>	<div></div>								

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

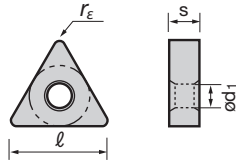
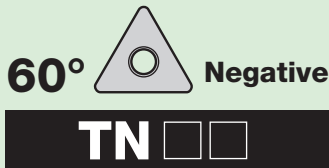
Y

R

K

H

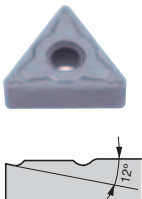
Triangular, with hole



TNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

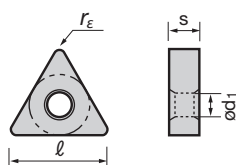
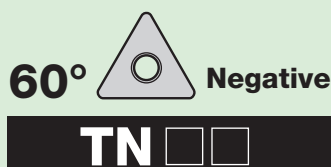
TN	1103	1603	1604	2204
$\phi d1$ (mm)	2.26	3.81	3.81	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Appearance (Cross section)			Coated						Coated cermet		Cermet			Uncoated																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				T9105	T9115	T9125	T9135	T6120	T6130	GH110	GH330	GT720	GT530	NS730	NS520	NS530	X407	TH10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Precision finishing	TF (M)		TNMG160404-TF *TNMG160408-TF TNMG160412-TF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

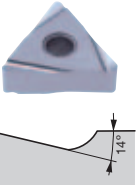
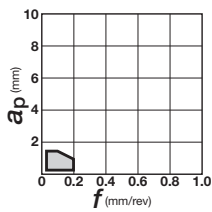
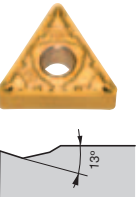
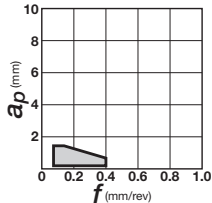
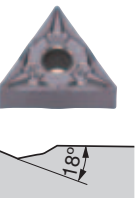
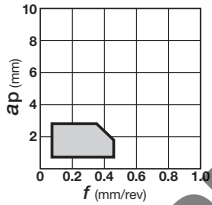

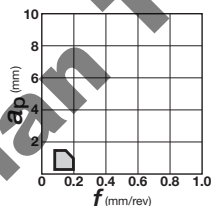

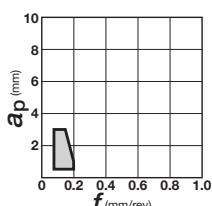
Triangular, with hole



TNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

TN <input type="checkbox"/>	1103 <input type="checkbox"/>	1603 <input type="checkbox"/>	1604 <input type="checkbox"/>	2204 <input type="checkbox"/>
$\phi d1$ (mm)	2.26	3.81	3.81	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)						
	Appearance (Cross section)			Coated						Coated cermet	Cermet		Uncoated									
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	GH330	GT730	GT530	NS730	NS520	NS530	TH10	KS20	
Precision finishing	W (G)		TNGG160404R-D TNGG160404L-W * TNGG160408R-W TNGG160408L-W																●	●	●	●
																						
Finishing	TSF (M)		TNMG160402-TSF TNMG160404-TSF * TNMG160408-TSF TNMG160412-TSF			●	●		●						●			●	●			
						●	●		●						●			●	●			
						●	●		●						●			●	●			
						●	●		●						●			●	●			
	SF (M)		TNMG160404-SF * TNMG160408-SF TNMG160412-SF							●	●	●										
										●	●	●										
										●	●	●										
										●	●	●										
	TS (M)		TNMG160404-TS * TNMG160408-TS TNMG160412-TS		●	●	●			▲						●			▲	●		
					●	●	●			▲						●			▲	●		
					●	●	●													●		
	SS (M)		TNMG160404-SS TNMG160408-SS TNMG160412-SS * TNMG220404-SS TNMG220408-SS TNMG220412-SS					●	●	●	●	●	●	●							●	
								●	●	●	●	●	●	●							●	
								●	●	●	●	●	●	●								
								●	●	●	●	●	●	●								
									●	●	●	●	●									

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

Y

R

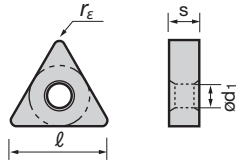
K

H

Triangular, with hole

60° Negative

TN



TNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

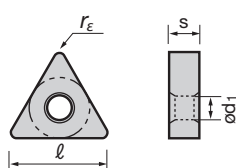
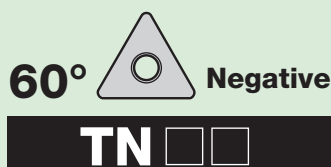
TN	1103	1603	1604	2204
ød1 (mm)	2.26	3.81	3.81	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)				
	Appearance (Cross section)			Coated								Coated cermet	Cermets		Uncoated						
				T9105	T9115	T9125	T9135	T6120	T6130	T5105	T5115	T5125	GH330	GT730		NS730	NS520	NS530	TH10		
Finishing	CF (M)		TNMG160404-CF *TNMG160408-CF																		TAC External Toolholders (4-22 ~, 4-86) TAC Internal Toolholders (5-36 ~) J-series (8-20)
	ZF (M)		TNMG160404-ZF *TNMG160408-ZF TNMG160412-ZF																		
	NS (M)		TNMG160404-NS *TNMG160408-NS																		
	11 (M)		TNMG110304-11 TNMG110308-11 TNMG160402-11 TNMG160404-11 *TNMG160408-11 TNMG160412-11 TNMG220404-11 TNMG220408-11																		
Finishing of mild steels	17 (M)		TNMG160404-17 *TNMG160408-17																		

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

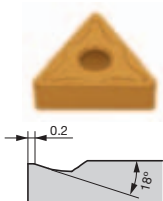
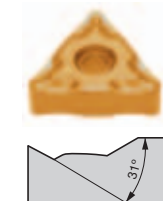
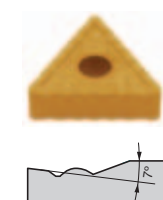


Triangular, with hole



TNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

TN	1103	1603	1604	2204
ød1 (mm)	2.26	3.81	3.81	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)		
	Appearance (Cross section)			Coated					Coated cermet	Cermet						
				T9105	T9115	T9125	T9135	T6120	T6130		GT730		NS520	NS530		
High feed, small depth of cut	AS (M)		TNMG160404-AS			●	●							●		TAC External Toolholders (4-22 ~, 4-86)
			*TNMG160408-AS	●	●	●	●							●		TAC Internal Toolholders (5-36 ~)
			TNMG160412-AS	●	●	●										J-series (8-20)
Boring (Double sided chipbreaker)	CB (M)		TNMG110304-CB	●										●		TAC External Toolholders (4-54 ~)
			*TNMG110308-CB	●										●		TAC Internal Toolholders (5-36 ~)
Finishing to medium cutting	ZM (M)		TNMG160404-ZM	●	●	●					●					TAC External Toolholders (4-22 ~, 4-86)
			TNMG160408-ZM	●	●	●					●					TAC Internal Toolholders (5-36 ~)
			*TNMG160412-ZM	●	●	●										J-series (8-20)
			TNMG220408-ZM													
			TNMG220412-ZM		●											
	27 (M)		*TNMG160408-27											●		
			TNMG220408-27											●		
	NM (M)		*TNMG160408-NM		●									●		
			TNMG160412-NM	●	●											

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

H

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

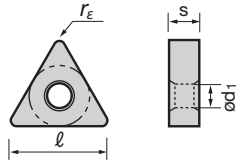
Y

R

K

H

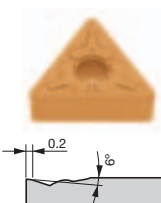
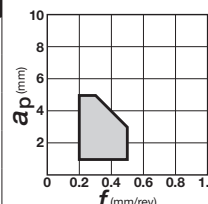
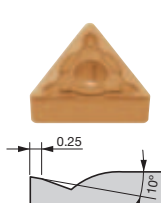
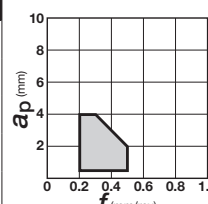
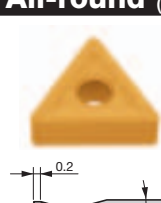
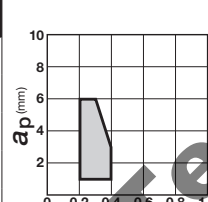
Triangular, with hole



TNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

TN	1103	1603	1604	2204
$\phi d1$ (mm)	2.26	3.81	3.81	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)					
	Appearance (Cross section)			Coated												Coated cermet	Cermet	Un-coated							
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	AH110	AH120	GT720		GT730	NS730	NS520	NS530	TH10
Medium cutting	TM (M) 		TNMG110304-TM	●	●	●																			TAC External Toolholders (4-22 ~, 4-86) TAC Internal Toolholders (5-36 ~) J-series (8-20)
	TNMG110308-TM	●	●	●																					
	TNMG160404-TM	●	●	●		●																			
	*TNMG160408-TM	●	●	●		●																			
	TNMG160412-TM	●	●	●		●											●								
	TNMG220408-TM	●	●	●		●																			
	TNMG220412-TM	●	●	●		●																			
	TNMG220416-TM	●	●																						
	SM (M) 		TNMG160404-SM					●	●	●	●	●													
	*TNMG160408-SM					●	●	●	●	●	●														
	TNMG160412-SM					●	●	●	●	●	●														
	TNMG220408-SM						●	●	●	●															
	TNMG220412-SM						●	●	●	●															
	All-round (M) 		TNMG110304		●	●								●	●	●		●		●	●	●	●		
	TNMG110308		●	●										●	●	●		●		●	●	●	●		
	TNMG160304																			●		●	●		
	TNMG160308																			●		●	●		
	TNMG160404			●	●	●	●							●	●	●	●	●	●	●	▲	●	●		
	*TNMG160408			●	●	●	●							●	●	●	●	●	●	●	▲	●	●		
	TNMG160412			●	●	●	●							●	●	●	●	●		●		●	●		
	TNMG160416			●	●	●								●	●	●								●	
	TNMG160420			●	●	●																			
	TNMG220408			●	●	●	●							●	●	●								●	
	TNMG220412			●	●	●	●							●	●	●								●	
	TNMG220416			●	●									●	●	●								●	

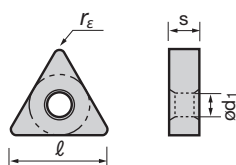
Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Triangular, with hole



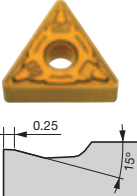
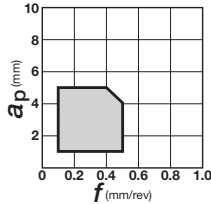
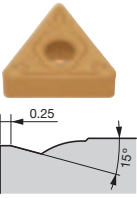
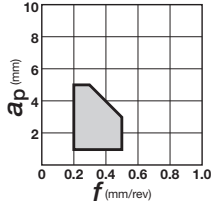
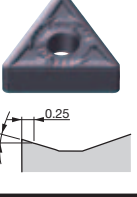
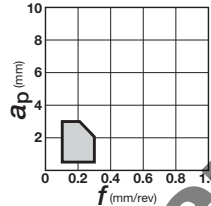
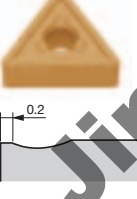
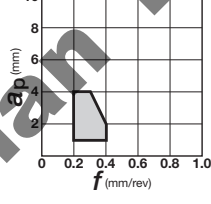
TN



TNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

TN 	1103 	1603 	1604 	2204
ød1 (mm)	2.26	3.81	3.81	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)	
	Appearance (Cross section)			Coated										Coated cermet	Uncoated			
				T9105	T9115	T9125	T9135	T6120	T6130	T5105	T5115	T5125	AH905	GH110	GH330	GT720		TH10
Medium cutting	CM (M)		TNMG160404-CM															TAC External Toolholders (4-22 ~, 4-86) TAC Internal Toolholders (5-36 ~) J-series (8-20)
			TNMG160408-CM															
			*TNMG160412-CM															
			TNMG220408-CM															
			TNMG220412-CM															
	DM (M)		TNMG160404-DM															
			*TNMG160408-DM	●	●	●	●											
			TNMG160412-DM	●	●													
			TNMG220408-DM															
			TNMG220412-DM															
			TNMG220416-DM															
	HMM (M)		TNMG160404-HMM										●					
			*TNMG160408-HMM										●					
			TNMG160412-HMM										●					
	33 (M)		TNMG160404-33														●	
			*TNMG160408-33														●	
			TNMG220404-33												●			

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

H

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

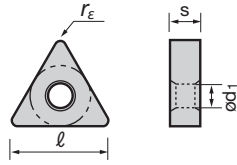
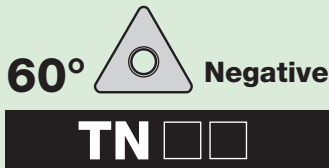
Y

R

K

H

Triangular, with hole



TNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

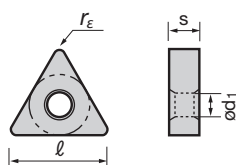
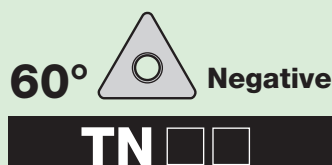
TN	1103	1603	1604	2204
$\phi d1$ (mm)	2.26	3.81	3.81	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)			
	Appearance (Cross section)			Coated						Cermet		Uncoated							
				T6020	T6030	T6120	T6130	AH630	AH645	AH120	GH330	NS520	NS530		KS20	UX25			
Medium cutting	37 (M)		TNMG160404-37 * TNMG160408-37							●	●	●	●						TAC External Toolholders (4-22 ~, 4-86) TAC Internal Toolholders (5-36 ~) J-series (8-20)
										●	●	●	●						
	38 (M)		TNMG160404-38 * TNMG160408-38							●	●								
										●	●								
	SA (M)		TNMG160404-SA * TNMG160408-SA TNMG160412-SA TNMG220408-SA TNMG220412-SA	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	
				●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

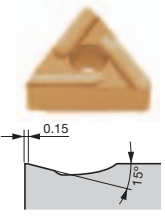
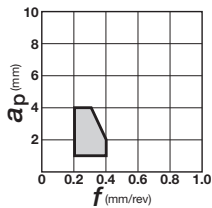
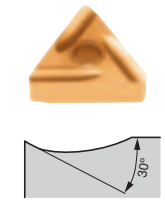
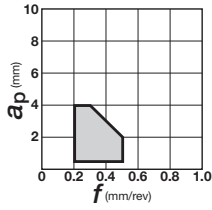
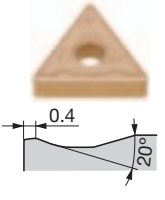
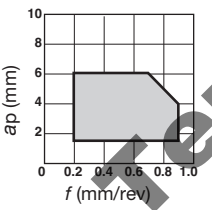
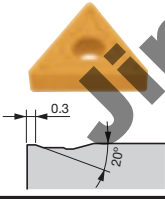
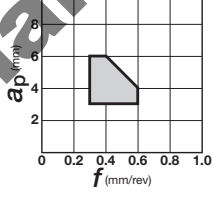
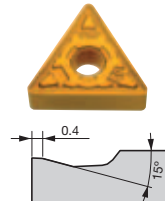
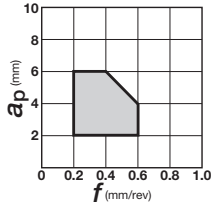
Triangular, with hole



TNMG 16 04 04 - ☐ ☐

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

TN <input type="checkbox"/>	1103 <input type="checkbox"/>	1603 <input type="checkbox"/>	1604 <input type="checkbox"/>	2204 <input type="checkbox"/>
ød1 (mm)	2.26	3.81	3.81	5.16

Application	Chipbreaker Appearance (Cross section)	$f - a_p$	Insert Cat. No.	Stocked grades																	Applicable toolholders (pages)					
				Coated										Cermet		Uncoated										
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	GH110	GH330	NS520	NS530		UX25	TH10			
Medium cutting	S (M) 		TNMG160404R-S			●	●										●	●						TAC External Toolholders (4-22 ~, 4-86) TAC Internal Toolholders (5-36 ~) J-series (8-20)		
			TNMG160404L-S			●	●											●	●							
			*TNMG160408R-S			●	●																			
			TNMG160408L-S			●	●												●	●						
			TNMG220404R-S			●	●												●	●						
			TNMG220404L-S			●	●												●	●						
			TNMG220408R-S			●	●												●	●						
			TNMG220408L-S			●	●												●	●						
	P (G) 		TNGG160402R-P														●	●	●			●				
			TNGG160402L-P															●	●	●			●			
			TNGG160404R-P																●	●	●			●		
			TNGG160404L-P																●	●	●			●		
			*TNGG160408R-P																●	●	●			●		
			TNGG160408L-P																●	●	●			●		
	THS (M) 		TNMG220408-THS		●	●	●																		TAC External Toolholders (4-22)	
			*TNMG220412-THS		●	●	●																			
	TH (M) 		*TNMG220408-TH		●	●	●	●																		
			TNMG220412-TH		●	●	●		●																	
	CH (M) 		TNMG160404-CH												●	●	●							TAC External Toolholders (4-22 ~, 4-86) TAC Internal Toolholders (5-36 ~) J-series (8-20)		
			TNMG160408-CH													●	●	●								
			*TNMG160412-CH														●	●	●							
			TNMG220408-CH														●	●	●							
			TNMG220412-CH														●	●	●							
			TNMG220416-CH														●	●	●							

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

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TAC Inserts, Negative

2

TAC Inserts

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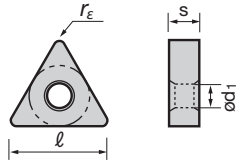
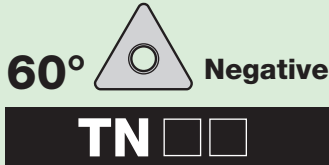
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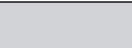
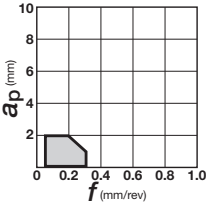

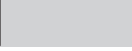
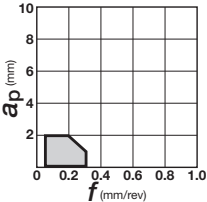
Triangular, with hole



TNMA 16 04 04

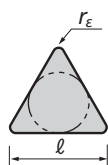
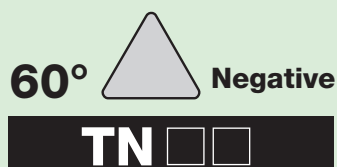
Cutting edge length (l) Thickness (s) Corner radius (r_e)

TN	1103	1603	1604	2204
ød1 (mm)	2.26	3.81	3.81	5.16

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)
	Appearance (Cross section)			Coated							Coated cermet	Cermet		Uncoated	Ceramics					
				T9115	T9125	T6120	T6130	T5105	T5115	T5125	GH110	GT720	NS520	NS530	TH03	TH10	FX105	LX21	LX11	
Finishing to medium cutting	- (M)	 		TNMA160404															TAC External Toolholders (4-22 ~, 4-86) TAC Internal Toolholders (5-36 ~) J-series (8-20)	
	TNMA160408																			
	TNMA160412																			
	TNMA160416																			
	TNMA160420																			
	TNMA220404																			
	TNMA220408																			
	TNMA220412																			
	TNMA220416																			
	- (G)	 		TNGA110304																
	TNGA110308																			
	TNGA160304																			
	TNGA160308																			
	TNGA160404																			
	TNGA160408																			
	TNGA160412																			
	TNGA160416																			
	TNGA220408																			



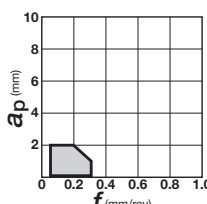
● : Stocked items
▲ : Discontinued items

Triangular, without hole



TNGN 16 04 04

Cutting edge length (l) Thickness (s) Corner radius (r_c)

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	Appearance (Cross section)			Uncoated	Ceramics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Finishing to medium cutting	<div><div>- (G)</div><div></div><div></div></div>		TNGN160404	TH10		FX105	LX21	LX11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

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Jinan Terry CNC Tool Co., Ltd.

TAC Inserts, Negative

2

TAC Inserts

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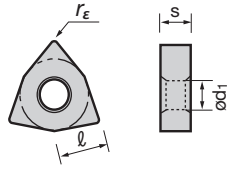
K

H

Trigon, with hole

80° Negative

WN



WNMG 08 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (re) Chipbreaker symbol

WN	0604	0804	1006	1306
od1 (mm)	3.81	5.16	6.35	7.93

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)				
	Appearance (Cross section)			Coated						Coated cermet		Cermet												
Precision finishing	TF (M)			WNMG080404-TF																		TAC External Toolholders (4-17 ~) TAC Internal Toolholders (5-38 ~)		
				* WNMG080408-TF																				
Precision finishing	01 (G)			WNGG060402-01																				
				* WNGG060404-01																				
				WNGG080402-01																				
				WNGG080404-01																				
				WNGG080408-01																				
Finishing	TSF (M)			WNMG060404-TSF	●	●																		
				* WNMG060408-TSF	●	●																		
				WNMG080404-TSF	●	●	●		●							●		●						
				WNMG080408-TSF	●	●	●		●							●		●						
				WNMG080412-TSF	●	●	●																	
	SF (M)			WNMG060404-SF					●	●	●													
				WNMG060408-SF					●	●	●													
				WNMG080404-SF					●	●	●													
				* WNMG080408-SF					●	●	●													
	TS (M)			WNMG080404-TS	●	●	●	▲								●		▲	●					
				* WNMG080408-TS	●	●	●	▲						●		▲	●							
				WNMG080412-TS	●	●	●									▲	●							

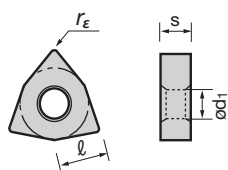
Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Trigon, with hole



WN



WNMG 08 04 04 -

Cutting edge length (ℓ) Thickness (s) Corner radius (r_e) Chipbreaker symbol

WN <input type="text"/>	0604 <input type="text"/>	0804 <input type="text"/>	1006 <input type="text"/>	1306 <input type="text"/>
ød1 (mm)	3.81	5.16	6.35	7.93

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)				
	Appearance (Cross section)			Coated										Coated cermet		Cermet								
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	GH330	T5105	T5115	T5125	GT720	GT730		GT530	NS730	NS530	
Finishing	SS (M)		WNMG080404-SS * WNMG080408-SS WNMG080412-SS						●	●	●	●	●	●										TAC External Toolholders (4-17 ~)
	CF (M)		WNMG080404-CF WNMG080408-CF * WNMG080412-CF												●	●								TAC Internal Toolholders (5-38 ~)
	ZF (M)		WNMG060404-ZF WNMG060408-ZF WNMG080404-ZF * WNMG080408-ZF WNMG080412-ZF	●	●													●				●		
	NS (M)		WNMG080404-NS * WNMG080408-NS	●	●																		●	
	AFW (M)		WNMG060404-AFW WNMG060408-AFW WNMG080404-AFW * WNMG080408-AFW	●	●	●	●																●	

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, Negative

2

TAC Inserts

C

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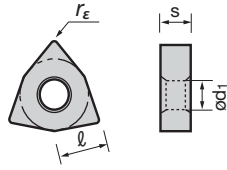
K

H

Trigon, with hole

80° Negative

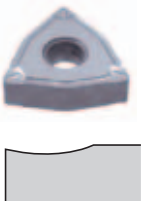
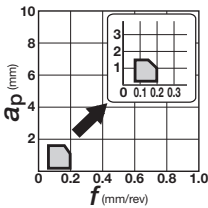
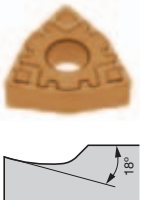
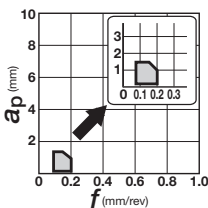
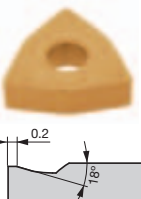
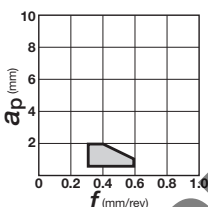
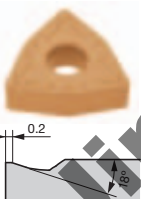
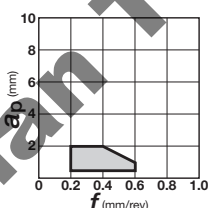
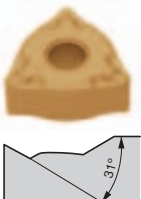
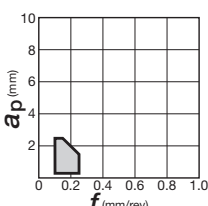
WN



WNMG 08 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

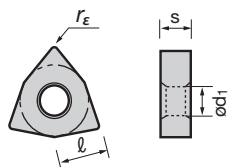
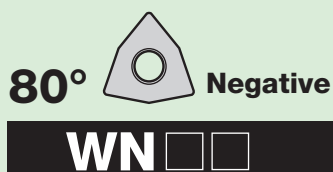
WN	0604	0804	1006	1306
ød1 (mm)	3.81	5.16	6.35	7.93

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)
	Appearance (Cross section)			Coated				Cermet						
				T9105	T9115	T9125	T9135			NS730	NS530			
Finishing	11 (M) 		WNMG080404-11 * WNMG080408-11								●	●		TAC External Toolholders (4-17 ~) TAC Internal Toolholders (5-38 ~)
	17 (M) 		WNMG080404-17 * WNMG080408-17								●	●		
Finishing of mild steels	ASW (M) 		WNMG060408-ASW WNMG060412-ASW * WNMG080408-ASW WNMG080412-ASW	●	●	●								
	AS (M) 		WNMG080404-AS * WNMG080408-AS WNMG080412-AS	●							●	●	●	
	CB (M) 		WNMG060404-CB * WNMG060408-CB		●						●	●		

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

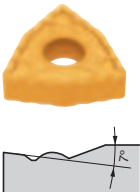
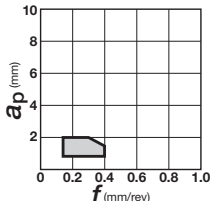
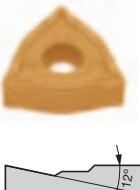
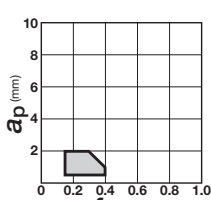

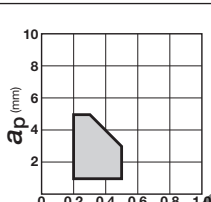

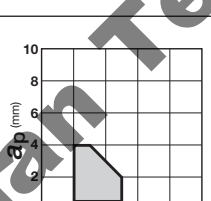
Trigon, with hole



WNMG 08 04 04 -

Cutting edge length (ℓ) Thickness (s) Corner radius (r_e) Chipbreaker symbol

WN	0604	0804	1006	1306
ød1 (mm)	3.81	5.16	6.35	7.93

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																	Applicable toolholders (pages)				
	Appearance (Cross section)			Coated										Coated cermet	Cermet		Un-coated								
Finishing to medium cutting	ZM (M)			WNMG060408-ZM	T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	AH110	AH120	GT730	GT530	NS730	NS530	TH10	TAC External Toolholders (4-17 ~)
				WNMG060412-ZM																					TAC Internal Toolholders (5-38 ~)
				*WNMG080408-ZM																					
				WNMG080412-ZM																					
				WNMG080416-ZM																					
	NM (M)			*WNMG080408-NM																					
				WNMG080412-NM																					
Medium cutting	TM (M)			WNMG060404-TM																					
				WNMG060408-TM																					
				WNMG080404-TM																					
				*WNMG080408-TM																					
				WNMG080412-TM																					
				WNMG080416-TM																					
	SM (M)			WNMG080404-SM																					
				*WNMG080408-SM																					
				WNMG080412-SM																					

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, Negative

2

TAC Inserts

C

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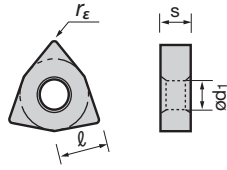
K

H

Trigon, with hole

80° Negative

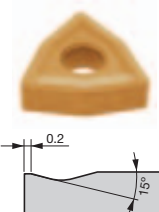
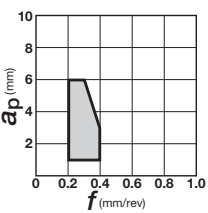
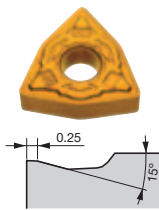
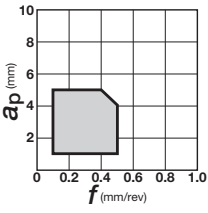
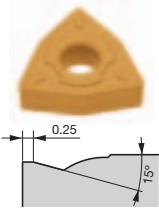
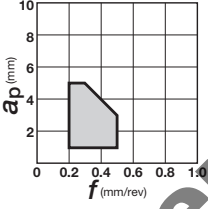
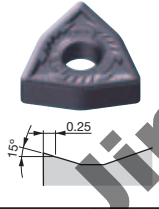
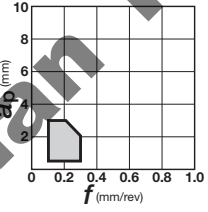
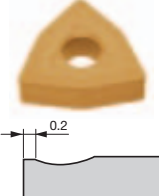
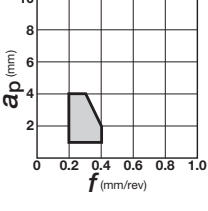
WN



WNMG 08 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

WN	0604	0804	1006	1306
ød1 (mm)	3.81	5.16	6.35	7.93

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)	
	Appearance (Cross section)			Coated										Coated cermet		Cermet		Uncoated			
				T9105	T9115	T9125	T9135	T5105	T5115	T5125	AH110	AH120	AH905	GT720	GT730	NS730	NS520	NS530	TH10		
Medium cutting	All-round (M) 		WNMG060404 WNMG060408 WNMG080404 * WNMG080408 WNMG080412 WNMG080416	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	TAC External Toolholders (4-17 ~) TAC Internal Toolholders (5-38 ~)
	CM (M) 		WNMG080408-CM * WNMG080412-CM					●	●	●	●										
	DM (M) 		WNMG080404-DM * WNMG080408-DM WNMG080412-DM	●	●	●	●	●	●	●	●										
	HMM (M) 		WNMG080404-HMM * WNMG080408-HMM WNMG080412-HMM									●	●	●							
	33 (M) 		WNMG080404-33 * WNMG080408-33									●							●		

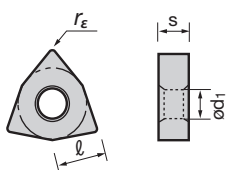
Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Trigon, with hole



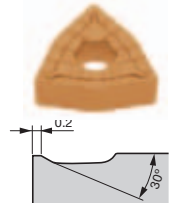
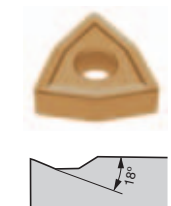
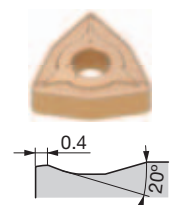
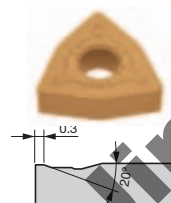
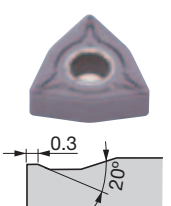
WN



WNMG 08 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

WN	0604	0804	1006	1306
ød1 (mm)	3.81	5.16	6.35	7.93

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)				
	Appearance (Cross section)			Coated										Cermet	Uncoated						
Medium cutting	37 (M)		WNMG080404-37 * WNMG080408-37	T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	GH330	NS530		KS20	TAC External Toolholders (4-17 ~) TAC Internal Toolholders (5-38 ~)
	SA (M)		* WNMG080408-SA WNMG080412-SA																		
	THS (M)		WNMG080408-THS * WNMG080412-THS WNMG080416-THS WNMG100612-THS WNMG100616-THS																		
Medium to heavy cutting	TH (M)		* WNMG080408-TH WNMG080412-TH WNMG080416-TH WNMG100612-TH WNMG100616-TH																		
	SH (M)		WNMG080408-SH * WNMG080412-SH																		

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, Negative

2

TAC Inserts

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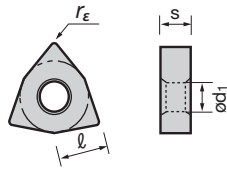
K

H

Trigon, with hole

80° Negative

WN



WNMM 08 04 08 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

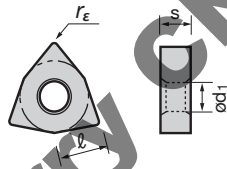
WN	0604	0804	1006	1306
ød1 (mm)	3.81	5.16	6.35	7.93

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)			
	Appearance (Cross section)			Coated					Coated cermet	Cermet	Uncoated						
Medium to heavy cutting	CH (M)		WNMG080408-CH	T6120	T6130	T5105	T5115	T5125				GT730		NS520		TH10	TAC External Toolholders (4-17 ~)
		* WNMG080412-CH															TAC Internal Toolholders (5-38 ~)
Finishing to medium cutting	- (M)		WNMA080404														
		WNMA080408															
		WNMA080412															
		WNMA080416															

Trigon, with hole

80° Negative

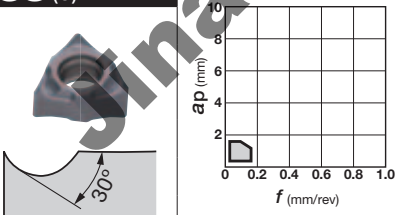
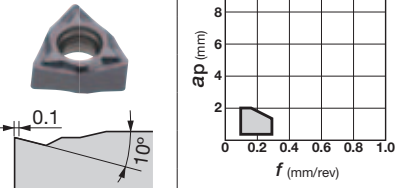
WXGU



WXGU 04 03 02 R -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Hand Chipbreaker symbol

DXGU	0403
ød1 (mm)	2.7

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)	
	Appearance (Cross section)			Coated				Coated cermet	Cermet						
Finishing (low cutting force)	SS (G)		WXGU040302R-SS	AH725					GT530	NS530					TAC Internal Toolholders (5-31)
		WXGU040302L-SS													
		WXGU040304R-SS													
		* WXGU040304L-SS													
Finishing to medium cutting	TS (G)		WXGU040302R-TS												
		WXGU040302L-TS													
		WXGU040304R-TS													
		* WXGU040304L-TS													
		WXGU040308R-TS													
		WXGU040308L-TS													

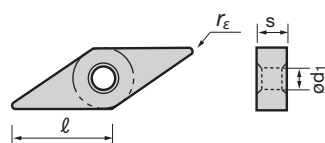
Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole

35° Negative

VN



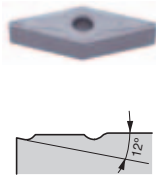
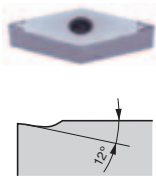
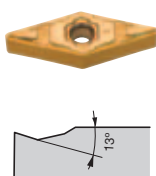
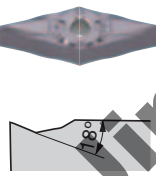
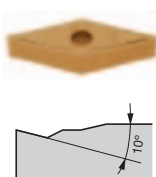
VNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

VN	1604
ød1 (mm)	3.81

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)		
	Appearance (Cross section)			Coated						Coated cermet			Cermet			Uncoated						
Precision finishing	TF (M)		VNMG160404-TF *VNMG160408-TF	T9105	T9115	T9125	T9135	T6120	T6130	AH630	AH645	GH110	GH330	GT720	GT730	GT530	NS730	NS520	NS530	TH10	TAC External Toolholders (4-30 ~) TAC Internal Toolholders (5-37 ~)	
	01 (G)		VNGG160402-01 *VNGG160404-01 VNGG160408-01																			
	Finishing	TSF (M)		VNMG160402-TSF VNMG160404-TSF *VNMG160408-TSF VNMG160412-TSF																		
		SF (M)		VNMG160404-SF *VNMG160408-SF																		
TS (M)			VNMG160404-TS *VNMG160408-TS VNMG160412-TS																			

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

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TAC Inserts, Negative

2

TAC Inserts

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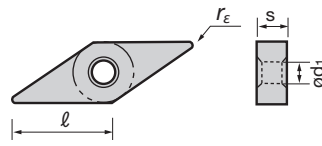
K

H

Rhombic, with hole

35° Negative

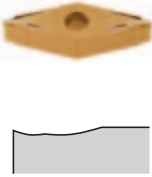
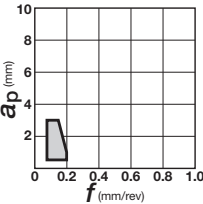
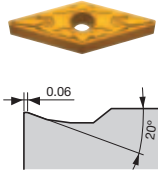
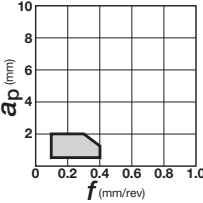
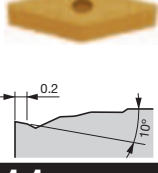
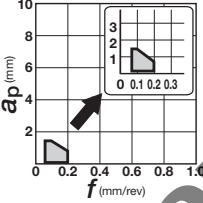
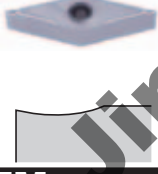
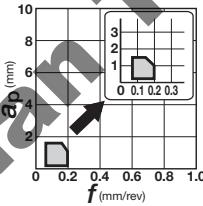
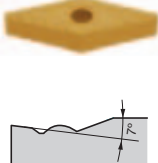
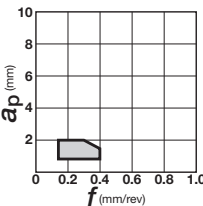
VN



VNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

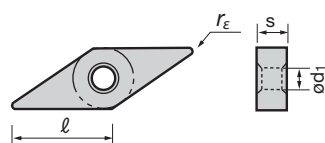
VN	1604
od1 (mm)	3.81

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)				
	Appearance (Cross section)			Coated										Coated cermet	Cermet	Uncoated					
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	GH330		GT730	NS730	NS530	TH10
Finishing	SS (M) 		* VNMG160404-SS VNMG160408-SS VNMG160412-SS						●	●	●	●	●		●						TAC External Toolholders (4-30 ~) TAC Internal Toolholders (5-37 ~)
	CF (M) 		VNMG160404-CF * VNMG160408-CF																		
	ZF (M) 		VNMG160404-ZF * VNMG160408-ZF VNMG160412-ZF	●	●	●									●		●				
	11 (M) 		* VNMG160404-11 VNMG160408-11 VNMG160412-11												●		▲	●		●	
	ZM (M) 		* VNMG160408-ZM VNMG160412-ZM	●	●	●									●						
	Finishing to medium cutting																				

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole



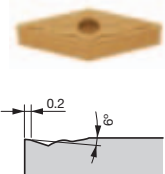
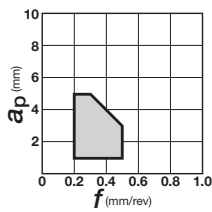
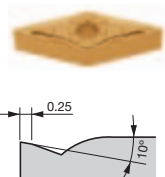
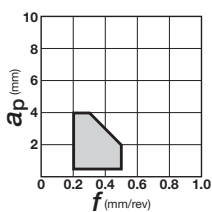
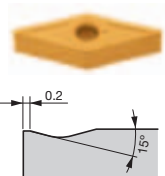
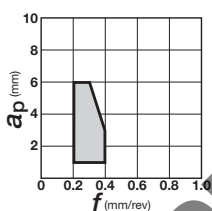
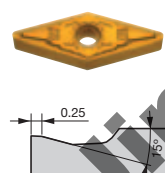
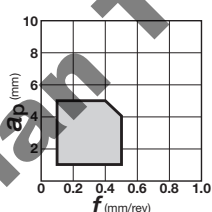
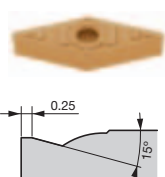
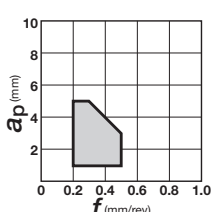
VNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

VN	1604
ød1 (mm)	3.81

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)			
	Appearance (Cross section)			Coated										Coated cermet	Cermet	Un-coated							
				T9105	T9115	T9125	T9135	T6020	T6030	T6120	T6130	AH630	AH645	T5105	T5115	T5125	AH110	AH120	GT730			NS730	NS530
Medium cutting	TM (M)			VNMG160404-TM	●	●	●	●		●													TAC External Toolholders (4-30 ~) TAC Internal Toolholders (5-37 ~)
				*VNMG160408-TM	●	●	●	●		●													
				VNMG160412-TM	●	●	●	●		●													
	SM (M)			VNMG160404-SM						●	●	●	●	●	●								
				*VNMG160408-SM						●	●	●	●	●	●								
				VNMG160412-SM						●	●	●	●	●	●								
	All-round (M)			VNMG160404	●	●	●	●						●	●	●	●	●		●	●	●	
				*VNMG160408	●	●	●	●						●	●	●	●	●		●	●	●	
				VNMG160412		●	●							●	●	●				●	●		
	CM (M)			VNMG160408-CM										●	●	●							
				*VNMG160412-CM										●	●	●							
	DM (M)			VNMG160404-DM																			
				*VNMG160408-DM	●	●	●	●															
				VNMG160412-DM	●	●	●																

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

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TAC Inserts, Negative

2

TAC Inserts

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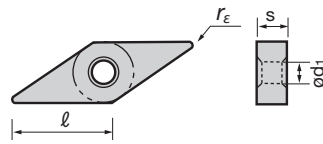
K

H

Rhombic, with hole

35° Negative

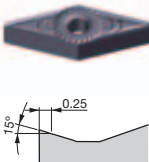
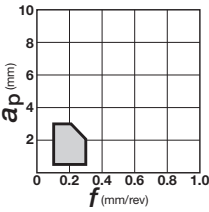
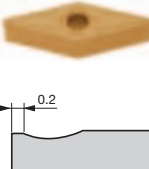
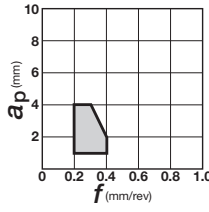
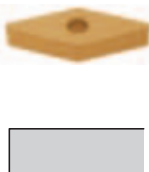
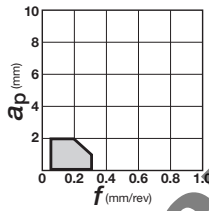
VN



VNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

VN	1604
ød1 (mm)	3.81

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)				
	Appearance (Cross section)			Coated						Coated cermet	Cermet		Uncoated					
Medium cutting	HMM (M)		VNMG160404-HMM	T6120	T6130	T5105	T5115	T5125	AH110	AH905				NS520	NS530		TH10	TAC External Toolholders (4-30 ~)
			* VNMG160408-HMM															TAC Internal Toolholders (5-37 ~)
				VNMG160412-HMM														
Medium cutting	33 (M)		VNMG160404-33															
			* VNMG160408-33															
Finishing to medium cutting	- (M)		VNMA160402															
			VNMA160404															
			VNMA160408															

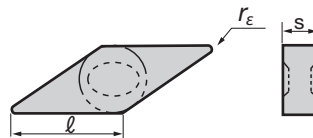
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, without hole

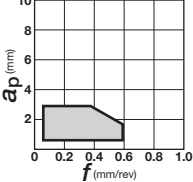
35° Negative

VNGD



VNGD 16 07 12

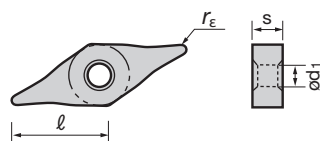
Cutting edge length (l) Thickness (s) Corner radius (r_e)

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Appearance (Cross section)			Ceramics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Finishing to medium cutting	- (G)		VNGD160712	FX105																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

Y-shape, with hole

25° Negative

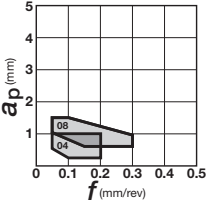
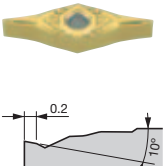
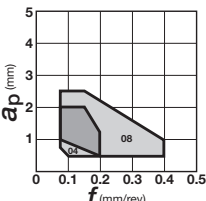
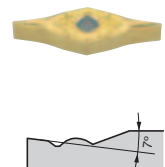
YN



YNMG 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (re) Chipbreaker symbol

YNMG	1604
ød1 (mm)	3.81

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)	
	Appearance (Cross section)			Coated						Coated cermet					
				T9105	T9115	T9125	T9135	T6120	T6130	GT730					
Finishing to medium cutting	ZF (M)		YNMG160404-ZF			●	●								TAC External Toolholders (4-30 ~) TAC Internal Toolholders (5-37 ~)
		* YNMG160408-ZF			●	●									
	ZM (M)		YNMG160404-ZM			●	●								
		* YNMG160408-ZM			●	●									

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

H

Jinan Terry CNC Tool Co., Ltd.

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

Y

R

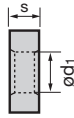
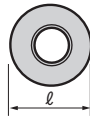
K

H

Round, with hole



RN



RNMG 12 04 00 -

Cutting edge length (l) Thickness (s) Corner radius (r) Chipbreaker symbol

RN	090300	120400	150600	190600	250900	310900
ød1 (mm)	3.81	5.16	6.43	7.93	9.22	12.78

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)				
	Appearance (Cross section)			Coated				Uncoated	Ceramics									
Finishing to medium cutting	<div><div>- (G)</div><div></div></div>	<div></div>	RNGA120400	T9105	T9115	T9125	T9135					TH10		FX105	LX11			TAC External Toolholders (4-32 ~)
Heavy cutting	<div><div>61 (M)</div><div></div><div></div></div>	<div></div>	RNMG090300-61		●	●												
			*RNMG120400-61	●	●	●	●				●							
			RNMG150600-61		●	●												
			RNMG190600-61		●	●	●											
			RNMG250900-61		●	●												
			RNMG310900-61		●	●												

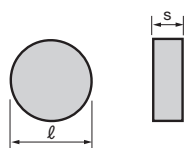
Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Round, without hole

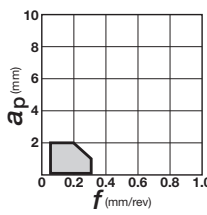



RN



RNGN 12 04 00

Cutting edge length (ℓ) Thickness (s) Corner radius (r_e)

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)
	Appearance (Cross section)			Ceramics																
Finishing to medium cutting	- (G)		RNGN120400	●	●															TAC External Toolholders (4-51)
			RNGN120700	●	●															

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

H

Jinan Terry CNC Tool Co., Ltd.

TAC Inserts, Negative

2

TAC Inserts

C

D

S

T

W

V

Y

R

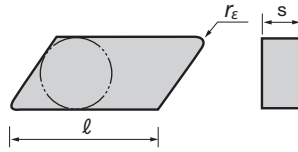
K

H

Parallelogram,
without hole

55° Negative

KNMX



KNMX 16 04 05 R -



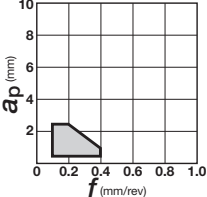
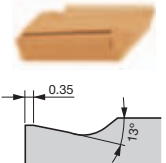
Cutting edge
length (l)

Thickness (s)

Corner
radius (r_E)

Hand of
insert

Chipbreaker
symbol

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)
	Appearance (Cross section)			Coated																
Finishing	S1 (M)		KNMX160405R-S1	●																TAC External Toolholders (4-61 ~)
			KNMX160405L-S1	●																
			*KNMX160410R-S1																	
			KNMX160410L-S1																	

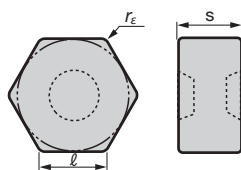
Note: Chipbreaker crosssections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Hexagon

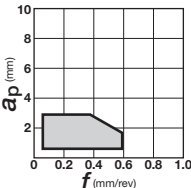
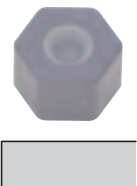
120° Negative

HNGD



HNGD 05 07 12

Cutting edge length (l) Thickness (s) Corner radius (r_e)

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	FX105	Stocked grades														Applicable toolholders (pages)
	Appearance (Cross section)				Ceramics														
Finishing to medium cutting	- (G)		HNGD050712	●														TAC External Toolholders (4-37)	
			HNGD050716	●															

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

D

S

T

W

V

Y

R

K

H

Jinan Terry CNC Tool Co., Ltd.

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

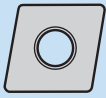
Y

R

Special

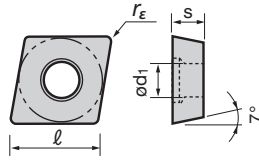
Rhombic, with hole

80°



Positive
7°

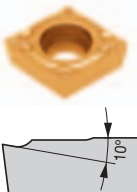
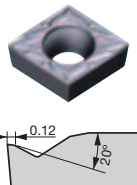
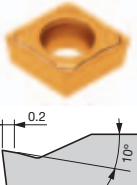

CC



CCGT 06 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

CC T(W)	03X1	04T1	0602	09T3	1204
ød1 (mm)	1.9	2.3	2.8	4.4	5.5

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)							
	Appearance (Cross section)			Coated										Coated cermet		Cermet	Uncoated										
Precision finishing	01 (G)		CCGT060202-01 *CCGT09T302-01	T9105	T9115	T9125	T9135	T6120	T6130	T6020	T6030	AH725	GH110	GH330	GH730	J740	SH730	GT730	AT530	GT530	J530	NS730	NS530	TH10	UX30	TAC External Toolholders (4-63 ~, 4-75 ~) TAC Internal Toolholders (5-12 ~) J-series (8-9)	
	PSF (M)		CCMT060202-PSF CCMT060204-PSF CCMT09T302-PSF CCMT09T304-PSF *CCMT09T308-PSF																								
	PF (M)		CCMT060202-PF CCMT060204-PF CCMT060208-PF CCMT09T302-PF CCMT09T304-PF *CCMT09T308-PF																								
	W08 (G)		CCGT03X100R-W08 CCGT03X100L-W08 CCGT03X101R-W08 CCGT03X101L-W08 CCGT03X102R-W08 CCGT03X102L-W08 CCGT03X104R-W08 CCGT03X104L-W08 CCGT04T100R-W08 CCGT04T100L-W08 CCGT04T101R-W08 CCGT04T101L-W08 *CCGT04T102R-W08 CCGT04T102L-W08 CCGT04T104R-W08 CCGT04T104L-W08																								TAC Internal Toolholders (5-12 ~) J-series (8-36)

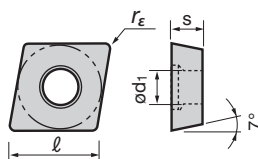
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole

80° Positive 7°

CC



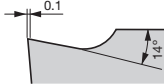
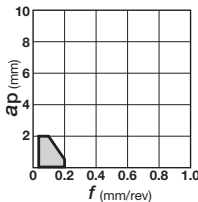
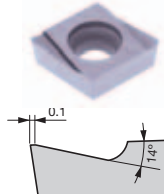
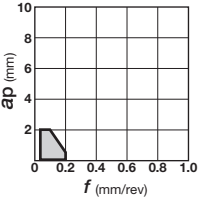
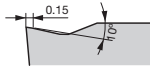
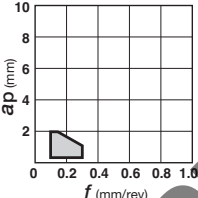

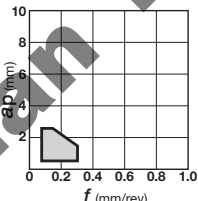
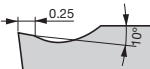
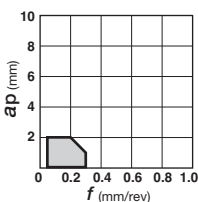
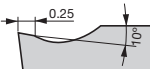
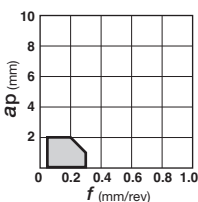
CCGT 06 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

CC□T(W)	03X1□□	04T1□□	0602□□	09T3□□	1204□□
ød1 (mm)	1.9	2.3	2.8	4.4	5.5

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades														Applicable toolholders (pages)										
	Appearance (Cross section)			Coated								Coated cermet	Cermet	Uncoated														
Finishing	W15 (G)			CCGT060200R-W15	T9115	T9125	T6120	T6130	T6020	T6030	T5115	AH725	AH630	AH645	GH110	GH330	GH730	GT730	AT530	GT530	NS730	NS530	TH10	UX30	TAC External Toolholders (4-63 ~, 4-75 ~)			
	W20 (G)			CCGT060200L-W15																						TAC Internal Toolholders (5-12 ~)		
				CCGT060202R-W15																								
				CCGT060202L-W15																								
				* CCGT060204R-W15																								
				CCGT060204L-W15																								
				CCGT060208L-W15																								
Finishing to light cutting	PSS (M)			CCGT09T302R-W20																								
	PS (M)			CCGT09T302L-W20																								
				* CCGT09T304R-W20																								
				CCGT09T304L-W20																								
				CCGT09T308R-W20																								
				CCGT09T308L-W20																								
				CCMT060204-PSS																								
Finishing to medium cutting	CM (M)			CCMT060208-PSS																								
				* CCMT09T304-PSS																								
				CCMT09T308-PSS																								
				CCMT120404-PSS																								
				CCMT120408-PSS																								
				CCMT120412-PSS																								
				CCMT060202-PS																								
				CCMT060204-PS																								
	* CCMT060208-PS																											
	CCMT09T302-PS																											
	CCMT09T304-PS																											
	CCMT09T308-PS																											
	CCMT120404-PS																											
	CCMT120408-PS																											
CCMT120412-PS																												
Finishing to medium cutting	CM (M)			CCMT060204-CM																								
				CCMT060208-CM																								
				CCMT09T304-CM																								
				CCMT09T308-CM																								
				* CCMT09T312-CM																								
				CCMT120404-CM																								

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

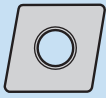
Y

R

Special

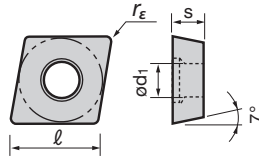
Rhombic, with hole

80°



Positive
7°

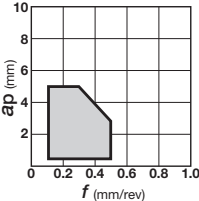
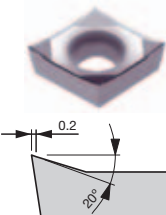
CC



CCGT 06 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

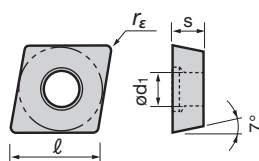
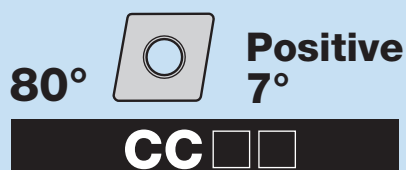
CC T(W)	03X1	04T1	0602	09T3	1204
ød1 (mm)	1.9	2.3	2.8	4.4	5.5

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)							
	Appearance (Cross section)			Coated						Coated cermet		Cermet		Uncoated													
Finishing to medium cutting	AL (G)			T9105	T9115	T9125	T9135	T6120	T6130	T5115	AH725						GT730	AT530	GT530	J530	NS730	NS530		KS05F	TH10		
				CCGT060202-AL																					●		
				CCGT060204-AL																					●		
				*CCGT09T302-AL																					●		
				CCGT09T304-AL																					●		
				CCGT09T308-AL																					●		
				CCGT120402-AL																					●		
				CCGT120404-AL																					●		
			CCGT120408-AL																					●			

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole



CCGT 06 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

CC□T(W)	03X1□□	04T1□□	0602□□	09T3□□	1204□□
ød1 (mm)	1.9	2.3	2.8	4.4	5.5

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																	Applicable toolholders (pages)					
	Appearance (Cross section)			Coated							Coated cermet	Cermet	Uncoated													
For internal turning on small lathes	JS (G)		CCGT03X101-JS	T9105	T9115	T9125	T9135	T6120	T6130	T5115	AH725	GH110	GH330	GH730	J740	SH730	GT730	AT530	GT530	J530	NS730	NS530	KS05F	TH10	TAC Internal Toolholders (5-12 ~)	
		CCGT03X102-JS																								J-series (8-36)
		CCGT03X104-JS																								
		*CCGT04T101-JS																								
		CCGT04T102-JS																								
		CCGT04T104-JS																								
For external turning on small lathes (Sharp edges)	JS (G)		CCGT060200FN-JS																						TAC External Toolholders (4-63 ~, 4-75 ~)	
		CCGT060201FN-JS																							TAC Internal Toolholders (5-12 ~)	
		CCGT060202FN-JS																								
		CCGT060204FN-JS																								
		CCGT09T300FN-JS																								
		*CCGT09T301FN-JS																								
For external turning on small lathes	JS (G)		CCGT060201N-JS																						J-series (8-9)	
		CCGT060202N-JS																								
		CCGT060204N-JS																								
		*CCGT09T301N-JS																								
		CCGT09T302N-JS																								
		CCGT09T304N-JS																								
For external turning on small lathes (Sharp edges)	J10 (G)		CCGT060200FR-J10																						TAC External Toolholders (4-63 ~, 4-75 ~)	
		CCGT060200FL-J10																								
		CCGT060201FR-J10																								
		CCGT060201FL-J10																								
		CCGT060202FR-J10																								
		CCGT060202FL-J10																								
		CCGT09T300FR-J10																								
		CCGT09T300FL-J10																								
		CCGT09T301FR-J10																								
		CCGT09T301FL-J10																								
		*CCGT09T302FR-J10																								
		CCGT09T302FL-J10																								

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

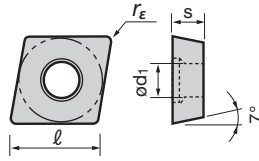
Rhombic, with hole

80°



Positive
7°

CC



CCGT 06 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

CC T(W)	03X1	04T1	0602	09T3	1204
ød1 (mm)	1.9	2.3	2.8	4.4	5.5

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)					
	Appearance (Cross section)			Coated										Coated cermet	Cermet	Uncoated									
				T9115	T9125	T6120	T6130	T6020	T6030	T5115	AH725	AH630	AH645	GH730	SH730	GT730	AT530	GT530	J530		NS730	NS530	KS05F	TH10	
On small lathes (Honed edges)	J10 (G) 		CCGT060201R-J10 CCGT060201L-J10 CCGT060202R-J10 CCGT060202L-J10 CCGT09T301R-J10 CCGT09T301L-J10 *CCGT09T302R-J10 CCGT09T302L-J10																					TAC External Toolholders (4-63 ~, 4-75 ~) TAC Internal Toolholders (5-12 ~) J-series (8-9)	
	23 (M) 		CCMT060202-23 CCMT060204-23 *CCMT09T304-23 CCMT09T308-23																						
	All-round (G) 		CCGT060202 CCGT060204 CCGT09T302 *CCGT09T304 CCGT09T308																						
	Angular (G) 		CCGT060200R CCGT060202R CCGT060202L CCGT060204L CCGT09T302R CCGT09T302L *CCGT09T304R CCGT09T304L																						
	PM (M) 		CCMT060204-PM CCMT060208-PM CCMT09T304-PM *CCMT09T308-PM CCMT09T312-PM CCMT120408-PM CCMT120412-PM																						
	Finishing to medium cutting																								
Medium cutting																									

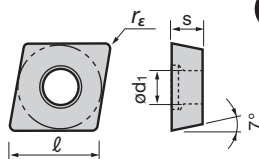
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole

80° Positive
7°

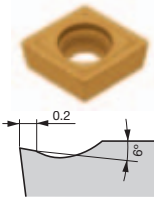
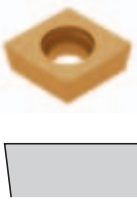

CC



CCMW 06 02 04 -

Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

CC T(W)	03X1	04T1	0602	09T3	1204
ød1 (mm)	1.9	2.3	2.8	4.4	5.5

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)		
	Appearance (Cross section)			Coated						Coated cermet	Cermet	Uncoated										
Medium cutting	24 (M)		CCMT060202-24	T9115	T9125	T6120	T6130	T5115	AH725	GH110	GH330	GH730	J740	SH730	GT730	AT530	GT530	J530	NS730	NS530	TH10	TAC External Toolholders (4-63 ~, 4-75 ~)
			CCMT060204-24																			TAC Internal Toolholders (5-12 ~)
			CCMT060208-24																			J-series (8-9)
			CCMT09T302-24																			
			*CCMT09T304-24																			
			CCMT09T308-24																			
			CCMT120408-24																			
Finishing to medium cutting	- (M)		CCMW060204																			
			CCMW060208																			
			*CCMW09T304																			
			CCMW09T308																			
	- (G)		CCGW060202																			
			*CCGW060204																			
			CCGW09T304																			

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Jinan Terry CNC Tool Co., Ltd.

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

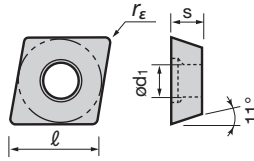
Rhombic, with hole

80°



Positive
11°

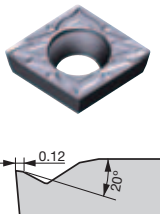
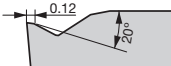
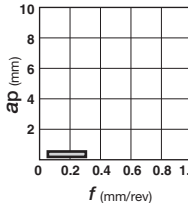
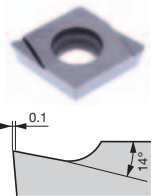
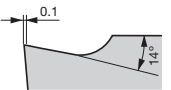
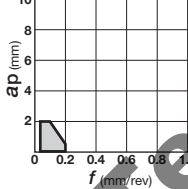
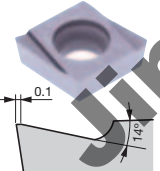
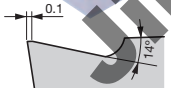
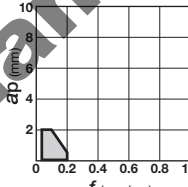
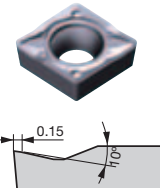
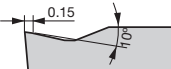
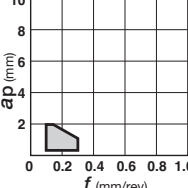
CP



CPGT 05 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_E) Chipbreaker symbol

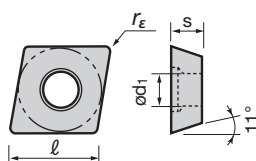
CP T(W)	0502	0602	0802	0903
ød1 (mm)	2.5	2.8	3.4	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)
	Appearance (Cross section)			Coated								Coated cermet		Cermet		Un-coated				
				T9115	T9125	T6120	T6130	T6020	T6030	T5115	AH725	AH630	AH645	GH730	GT730		AT530	NS730	NS530	
Finishing	PSF (M)  		CPMT060202-PSF																	TAC Internal Toolholders (5-14 ~)
			CPMT060204-PSF	●	●															
			CPMT080202-PSF																	
			CPMT080204-PSF	●	●															
			CPMT090302-PSF																	
			*CPMT090304-PSF	●	●															
			CPMT09T302-PSF																	
			CPMT09T304-PSF	●	●															
			CPMT090302-PF											●			●	●		
			*CPMT090304-PF											●			●	●		
		CPMT090308-PF														●	●			
Finishing	W15 (G)  		CPGT050202R-W15														●	●	TAC Internal Toolholders (5-14 ~)	
			CPGT050202L-W15														●	●		
			CPGT050204R-W15															●		
			CPGT050204L-W15															●		
			CPGT080202R-W15														●	●		
			CPGT080202L-W15														●	●		
			*CPGT080204R-W15														●	●		
			CPGT080204L-W15														●	●		
			CPGT090302R-W20														●	●		
			CPGT090302L-W20														●	●		
Finishing to light cutting	W20 (G)  		*CPGT090304R-W20														●	●	TAC Internal Toolholders (5-14 ~)	
			CPGT090304L-W20														●	●		
Finishing to light cutting	PSS (M)  		CPMT060204-PSS	●	●															
			CPMT080204-PSS	●	●	●	●					●	●	●						
			CPMT080208-PSS	●	●	●	●					●	●	●						
			*CPMT090304-PSS	●	●	●	●					●	●	●						
			CPMT090308-PSS	●	●	●	●					●	●	●						
			CPMT09T304-PSS	●	●															
		CPMT09T308-PSS	●	●																

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

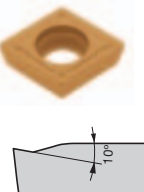
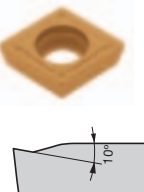
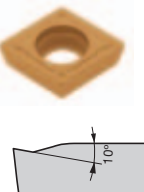
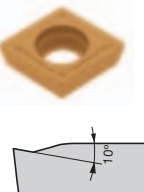
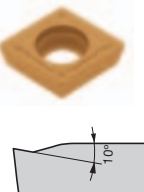
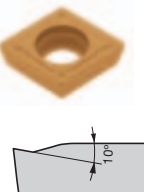
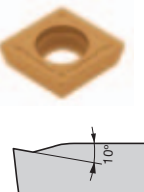
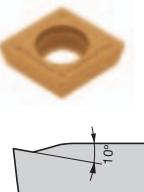
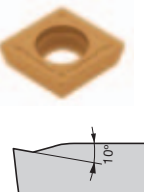
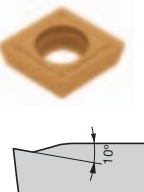
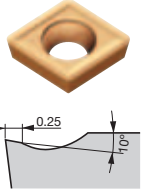
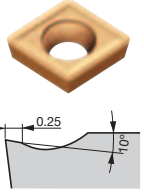
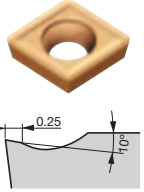
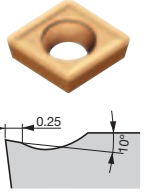
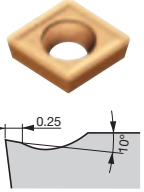
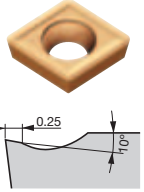
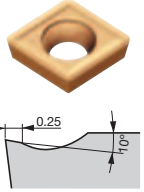
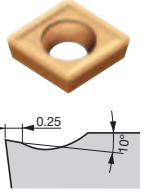
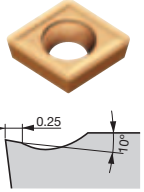
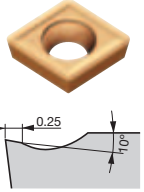
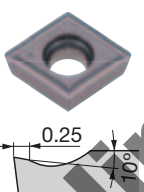
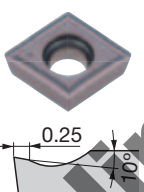
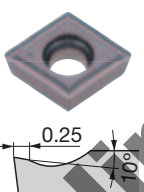
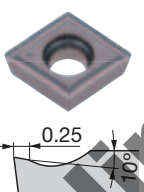
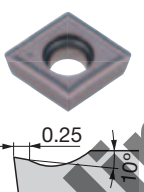
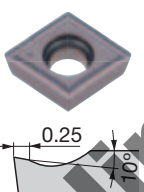
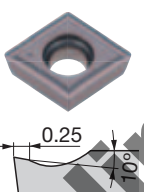
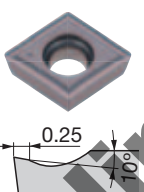
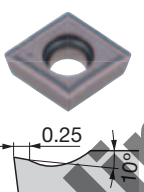
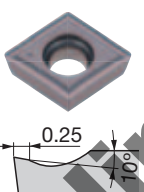
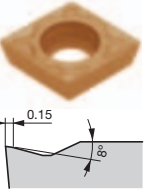
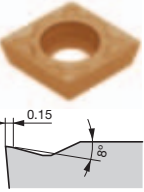
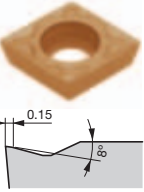
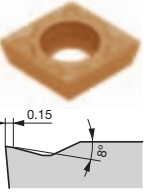
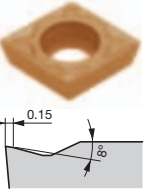
Rhombic, with hole



CPMT 06 02 04 -

Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

CP T(W)	0502	0602	0802	0903
ød1 (mm)	2.5	2.8	3.4	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)				
	Appearance (Cross section)			Coated								Coated cermet	Cermet		Uncoated						
Finishing to medium cutting	PS (M)		CPMT060202-PS	●	●						●				●	●					TAC Internal Toolholders (5-14 ~)
			CPMT060204-PS	●	●						●				●	●					
			CPMT080202-PS	●	●	●	●	●	●		●				●	●					
			CPMT080204-PS	●	●	●	●	●	●		●				●	●					
			CPMT080208-PS	●	●	●	●	●	●		●				●	●					
			*CPMT090304-PS	●	●	●	●	●	●		●				●	●					
			CPMT090308-PS	●	●	●	●	●	●		●				●	●					
			CPMT09T302-PS	●	●						●										
			CPMT09T304-PS	●	●						●										
			CPMT09T308-PS	●	●						●										
Finishing to medium cutting	CM (M)		CPMT060204-CM								●									TAC Internal Toolholders (5-14 ~)	
			CPMT060208-CM								●										
			CPMT080204-CM																		
			CPMT080208-CM																		
			CPMT090304-CM																		
			*CPMT090308-CM																		
			CPMT09T304-CM																		
			CPMT09T308-CM																		
			CPMT09T312-CM																		
			CPMT120408-CM																		
Medium cutting	All-round (M)		*CPMT120408												●					TAC Internal Toolholders (5-14 ~)	
																					
																					
																					
																					
																					
																					
																					
																					
																					
Medium cutting	PM (M)		CPMT060204-PM			●	●	●	●		●	●	●		●					TAC Internal Toolholders (5-14 ~)	
			CPMT060208-PM	●	●	●	●	●	●		●	●	●		●						
			*CPMT090304-PM	●	●	●	●	●	●		●	●	●		●						
			CPMT090308-PM	●	●	●	●	●	●		●	●	●		●						
																					

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

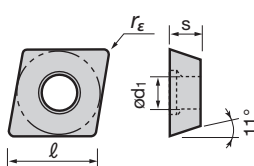
Rhombic, with hole

80°



Positive
11°


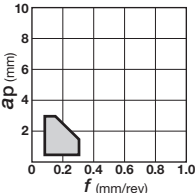

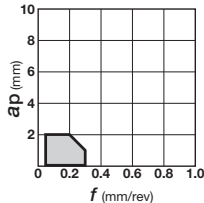
CP



CPMW 08 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_E) Chipbreaker symbol

CP T(W)	0502	0602	0802	0903
Ød1 (mm)	2.5	2.8	3.4	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)
	Appearance (Cross section)			Coated				Coated cermet	Cermet	Uncoated				
				T6120	T6130	T5115	AH725	GH730	GT730	NS730	NS530	TH10		
Medium cutting	24 (M)	 	CPMT080202-24											TAC Internal Toolholders (5-14 ~)
		CPMT090302-24												
		CPMT120408-24												
		CPMT160508-24												
		CPMT160512-24												
	- (M)	 	CPMW080202											
		CPMW080204												
		CPMW080208												
		CPMW090302												
		*CPMW090304												
		CPMW090308												

Note: Chipbreaker cross-sections are of * marked inserts.

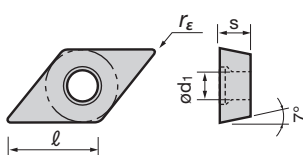
● : Stocked items
▲ : Discontinued items

Jinan Terry CNC Tool Co., Ltd.

Rhombic, with hole

55° Positive 7°

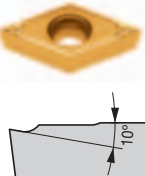
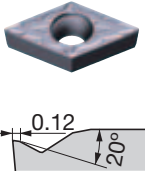
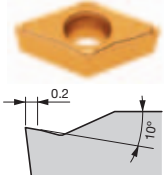
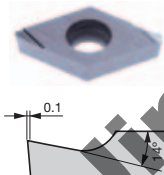
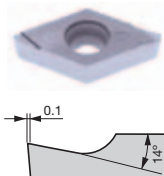
DC



DCGT 07 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (re) Chipbreaker symbol

DC(T(W)	0702	11T3
ød1 (mm)	2.8	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)					
	Appearance (Cross section)			Coated										Coated cermet	Cermet	Uncoated									
Precision finishing	01 (G)		DCGT070202-01 *DCGT11T302-01	T9105	T9115	T9125	T9135	T6120	T6130	T6020	T6030	T5115	AH725	AH905	GH330	GH730	J740	GT730	AT530	GT530	J530	NS730	NS530	TH10	TAC External Toolholders (4-63 ~) TAC Internal Toolholders (5-17 ~) J-series (8-12)
	PSF (M)		DCMT070202-PSF DCMT070204-PSF DCMT11T302-PSF *DCMT11T304-PSF DCMT11T308-PSF																						
Finishing	PF (M)		DCMT070202-PF DCMT070204-PF DCMT070208-PF DCMT11T302-PF DCMT11T304-PF *DCMT11T308-PF																						
	W10 (G)		DCGT070200R-W10 DCGT070200L-W10 DCGT070202R-W10 DCGT070202L-W10 *DCGT070204R-W10 DCGT070204L-W10 DCGT070208L-W10																						
	W15 (G)		DCGT11T302R-W15 DCGT11T302L-W15 *DCGT11T304R-W15 DCGT11T304L-W15 DCGT11T308R-W15 DCGT11T308L-W15																						

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, positive

2

TAC Inserts

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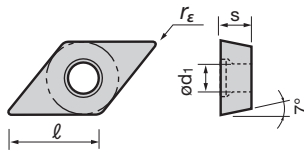
R

Special

Rhombic, with hole

55° Positive 7°

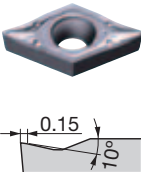
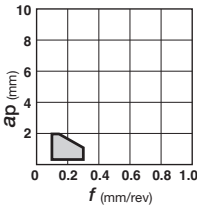
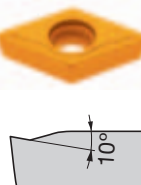
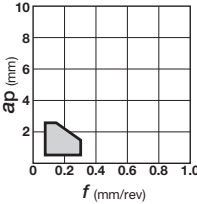
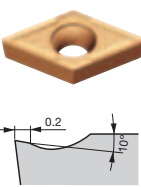
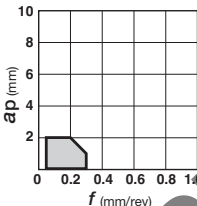
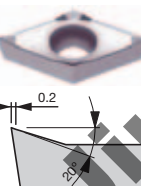
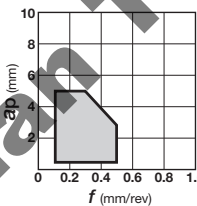
DC



DCGT 07 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

DC T(W)	0702	11T3
ød1 (mm)	2.8	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)								
	Appearance (Cross section)			Coated										Coated cermet	Cermet	Uncoated												
Finishing to light cutting	PSS (M) 		DCMT070204-PSS	T9115	T9125	T6120	T6130	T6020	T6030	T5115	AH725	AH630	AH645	AH905	GH330	GH730	J740	GT730	AT530	GT530	J530	NS730	NS530	KS05F	TH10	TAC External Toolholders (4-63 ~)		
			DCMT070208-PSS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	TAC Internal Toolholders (5-17 ~)	
			*DCMT11T304-PSS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	J-series (8-12)	
			DCMT11T308-PSS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			DCMT11T312-PSS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Finishing to medium cutting	PS (M) 		DCMT070202-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
			*DCMT070204-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			DCMT070208-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			DCMT11T302-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			*DCMT11T304-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CM (M) 		DCMT11T308-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
			DCMT11T312-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			DCMT070204-CM									●																
			DCMT070208-CM									●																
			*DCMT11T304-CM									●																
	AL (G) 		DCMT11T308-CM							●																		
			DCMT11T312-CM									●																
			DCGT070202-AL																							●		
			DCGT070204-AL																							●		
			*DCGT11T302-AL																							●		
			DCGT11T304-AL																					●				
			DCGT11T308-AL																					●				

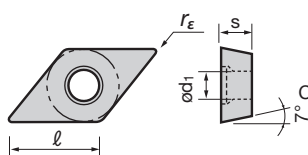
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole

55° Positive
7°

DC



DCGT 07 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

DC T(W)	0702	11T3
ϕd_1 (mm)	2.8	4.4

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)			
	Appearance (Cross section)			Coated			Coated cermet	Cermet		Uncoated							
Finishing to medium cutting	23 (M) 		DCMT070204-23 *DCMT11T304-23 DCMT11T308-23	T6120	T6130	GH110	SH730			GT730		NS730	NS530	KS05F	TH10	TAC External Toolholders (4-63 ~) TAC Internal Toolholders (5-17 ~) J-series (8-12)	
	All-round (G) 		DCGT070202 *DCGT070204 DCGT11T302 DCGT11T304 *DCGT11T308														
	Angular (G) 		DCGT070202R DCGT070202L *DCGT070204R DCGT070204L DCGT11T302R DCGT11T302L DCGT11T304R DCGT11T304L														
	JRP (E) 		DCET0702008MFR-JRP DCET0702008MFL-JRP DCET070201 MFR-JRP DCET070201 MFL-JRP DCET0702018MFR-JRP DCET0702018MFL-JRP DCET070202 MFR-JRP DCET070202 MFL-JRP DCET11T3008MFR-JRP DCET11T3008MFL-JRP DCET11T301 MFR-JRP DCET11T301 MFL-JRP DCET11T3018MFR-JRP DCET11T3018MFL-JRP *DCET11T302 MFR-JRP DCET11T302 MFL-JRP														

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

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Special

TAC Inserts, positive

2

TAC Inserts

C

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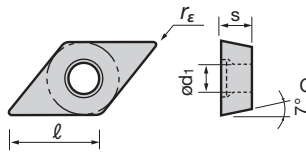
R

Special

Rhombic, with hole

55° Positive 7°

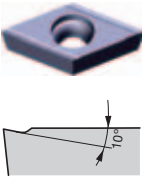
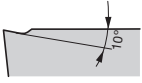
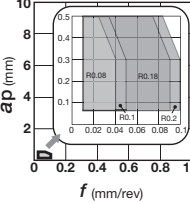
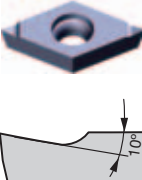

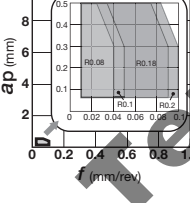
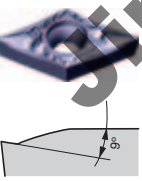
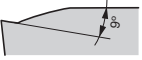
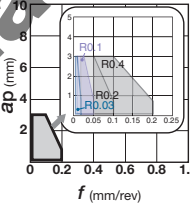
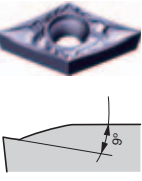
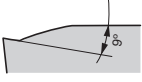
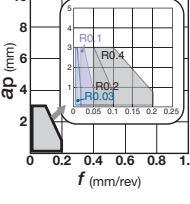
DC



DCGT 07 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

DC T(W)	0702	11T3
ød1 (mm)	2.8	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)		
	Appearance (Cross section)			Coated								Cermet		Uncoated				
				T9105	T9115	T9125	T9135	T6120	T6130	AH725	GH110	GH730	J740	SH730	NS730		NS530	TH10
For external turning on small lathes (Sharp edges)	JPP (E)  		DCET0702008MFR-JPP															TAC External Toolholders (4-63 ~)
			DCET0702008MFL-JPP															TAC Internal Toolholders (5-17 ~)
			DCET070201MFR-JPP															J-series (8-12)
			DCET070201MFL-JPP															
			DCET0702018MFR-JPP															
			DCET0702018MFL-JPP															
			DCET070202MFR-JPP															
			DCET070202MFL-JPP															
			DCET11T3008MFR-JPP															
			DCET11T3008MFL-JPP															
			DCET11T301MFR-JPP															
			DCET11T301MFL-JPP															
			DCET11T3018MFR-JPP															
			DCET11T3018MFL-JPP															
			*DCET11T302MFR-JPP															
			DCET11T302MFL-JPP															
	JSP (E)  		DCET0702008MFN-JSP															
			DCET070201MFN-JSP															
			*DCET0702018MFN-JSP															
			DCET070202MFN-JSP															
			DCET11T3008MFN-JSP															
			DCET11T301MFN-JSP															
			DCET11T3018MFN-JSP															
			DCET11T302MFN-JSP															
			DCGT070200FN-JS															
			DCGT070201FN-JS															
	JS (G)  		DCGT070202FN-JS															
			DCGT11T300FN-JS															
			*DCGT11T301FN-JS															
			DCGT11T302FN-JS															
			DCGT11T304FN-JS															
On small lathes	JS (G)  		DCGT070201N-JS															
			DCGT070202N-JS															
			*DCGT11T301N-JS															
			DCGT11T302N-JS															
			DCGT11T304N-JS															

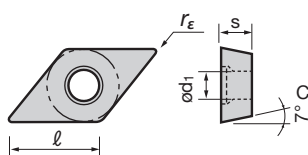
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole

55° Positive 7°






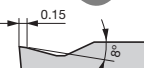

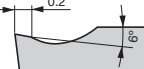
DC



DCGT 07 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

DC T(W)	0702	11T3
ϕd_1 (mm)	2.8	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)	
	Appearance (Cross section)			Coated						Coated cermet	Cermet	Uncoated									
For external turning on small lathes (Sharp edges)	J10 (G)	 	*DCGT070200FR-J10 DCGT070200FL-J10 DCGT070201FR-J10 DCGT070201FL-J10 DCGT070202FR-J10 DCGT070202FL-J10 DCGT11T300FR-J10 DCGT11T300FL-J10 DCGT11T301FR-J10 DCGT11T301FL-J10 DCGT11T302FR-J10 DCGT11T302FL-J10	T9115	T9125	T6120	T6130	T6020	T6030	T5115	AH725	AH630	AH645	GH730	J740	GT730	J530	NS730	NS530	TH10	TAC External Toolholders (4-63 ~) TAC Internal Toolholders (5-17 ~) J-series (8-12)
	J10 (G)	 	*DCGT070201R-J10 DCGT070201L-J10 DCGT070202R-J10 DCGT070202L-J10 DCGT11T301R-J10 DCGT11T301L-J10 *DCGT11T302R-J10 DCGT11T302L-J10																		
	Medium cutting	PM (M)	 	DCMT070204-PM DCMT070208-PM DCMT11T304-PM *DCMT11T308-PM DCMT11T312-PM	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		24 (M)	 	DCMT070202-24 DCMT070204-24 DCMT070208-24 DCMT11T302-24 *DCMT11T304-24 DCMT11T308-24																●	

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

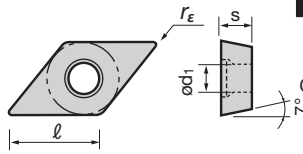
R

Special

Rhombic, with hole

55° Positive 7°



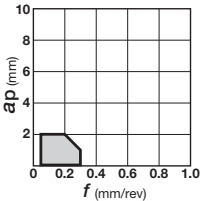
DC



DCGW 07 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

DC□T(W)	0702□□	11T3□□
ød1 (mm)	2.8	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Appearance (Cross section)			Coated					Coated cermet		Cermets		Uncoated																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Medium cutting	- (M)	 		DCMW070204	T6120	T6130	T5115	AH725	GH110	GH730			GT730	J530		NS730	NS530		TH10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</

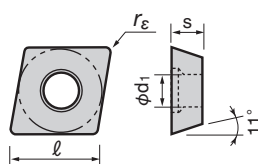
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Jinan Terry CNC Tool Co., Ltd.

Rhombic, with hole

75° **Positive**
11°
EPGT



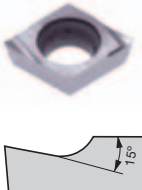

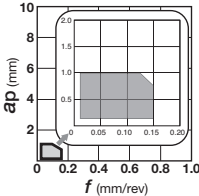


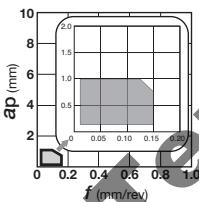
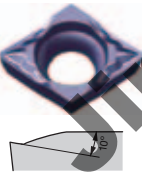

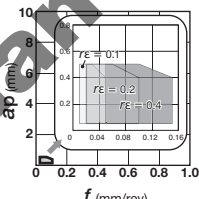
EPGT 04 01 00 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

EPGT	03X1	0401
ød1 (mm)	1.9	2.3

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades														Applicable toolholders (pages)		
	Appearance (Cross section)			Coated							Coated cermet		Cermet		Uncoated					
Finishing	W08 (G)  		EPGT03X100R-W08	T9105	T9115	T9125	T9135	T6120	T6130	GH110	J740	SH730	GT730	GT530	NS730	NS530	TH10	UX30	TAC Internal Toolholders (5-28 ~) J-series (8-39)	
			EPGT03X100L-W08																	
			EPGT03X101R-W08																	
			EPGT03X101L-W08																	
			*EPGT03X102R-W08																	
			EPGT03X102L-W08																	
			EPGT03X104R-W08																	
			EPGT03X104L-W08																	
			EPGT040100R-W08																	
			EPGT040100L-W08																	
			EPGT040101R-W08																	
			EPGT040101L-W08																	
			EPGT040102R-W08																	
			EPGT040102L-W08																	
			EPGT040104R-W08																	
			EPGT040104L-W08																	
For internal turning on small lathes	J08 (G)  		EPGT040100L-J08																	
			*EPGT040102L-J08																	
			EPGT040104L-J08																	
For internal turning on small lathes	JS (G)  		EPGT03X101-JS																	
			EPGT03X102-JS																	
			EPGT03X104-JS																	
			*EPGT040101-JS																	
			EPGT040102-JS																	
			EPGT040104-JS																	

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

C

D

E

S

T

W

V

Y

R

Special

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

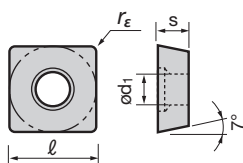
Square, with hole

90°



Positive
7°

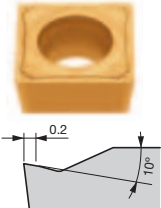
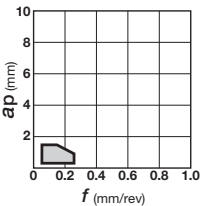
SC



SCMT 12 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

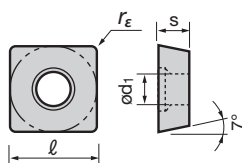
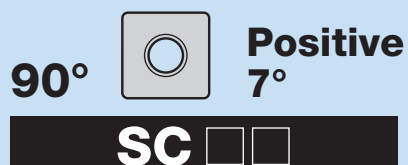
SC T(W)	0702	09T3	1204
ød1 (mm)	3.4	4.4	5.5

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades														Applicable toolholders (pages)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Appearance (Cross section)			Coated						Coated cermet	Cermet																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Finishing	PF (M)			*SCMT09T304-PF SCMT09T308-PF	T9115	T9125	T6120	T6130	T6020	T6030	T5115	AH120	AH725	AH630	AH645	GT730	AT530		NS730	NS530																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

Note: Chipbreaker cross sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

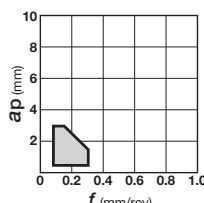
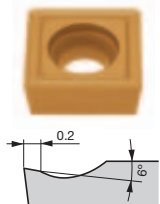
Square, with hole



SCMT 07 02 04 - 

Cutting edge length (ℓ) Thickness (s) Corner radius (r_ε) Chipbreaker symbol

SC□T(W)	0702□□	09T3□□	1204□□
ød1 (mm)	3.4	4.4	5.5

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)
	Appearance (Cross section)			Coated						Coated cermet	Cermet									
Medium cutting	24 (M)		SCMT070204-24	T9105	T9115	T9125	T9135	T6120	T6130	T5115	AH120	AH725	AH630	AH645	GT730	AT530		NS730	NS530	TAC External Toolholders (4-66 ~)
		SCMT09T302-24																		
		*SCMT09T304-24																		
		SCMT09T308-24																		
		SCMT120404-24																		
		SCMT120408-24																		

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

Jinan Terry CNC Tool Co., Ltd.

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

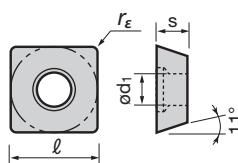
Square, with hole

90°



Positive
11°

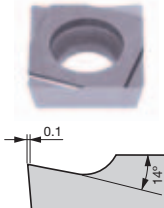
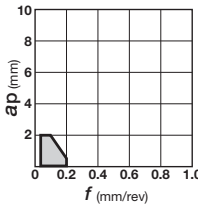
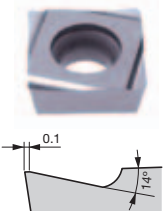
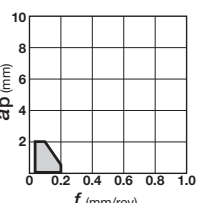
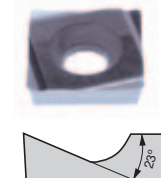
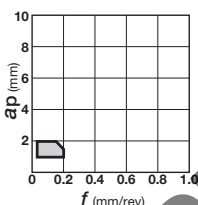
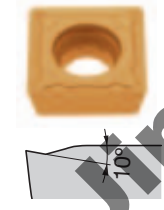
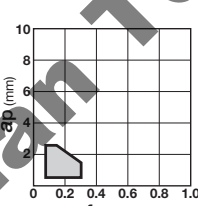
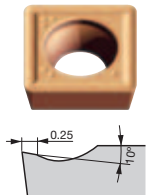
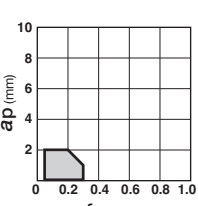
SP



SPGT 09 03 02 -

Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

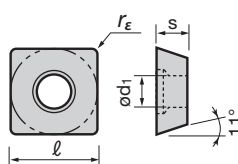
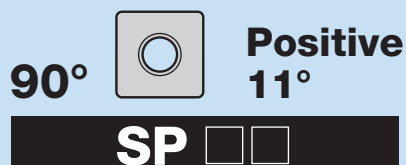
SP T(W)	0903	1204	SPGM(A)	0903	1203
ød1 (mm)	4.4	5.5	ød1 (mm)	4.0	5.0

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades														Applicable toolholders (pages)		
	Appearance (Cross section)			Coated								Coated cermet		Cermets		Uncoated				
Finishing	W15 (G)			SPGT090302R-W15	T9115	T9125	T6120	T6130	T6020	T6030	AH725	AH630	AH645	T5115	GT730	AT530	NS730	NS530	TH10	TAC Internal Toolholders (5-18 ~)
				SPGT090302L-W15																
				*SPGT090304R-W15																
				SPGT090304L-W15																
				SPGT090308R-W15																
				SPGT090308L-W15																
	W20 (G)			*SPGT120404R-W20																
				SPGT120404L-W20																
				SPGT120408R-W20																
				SPGT120408L-W20																
-	(with hand) (G) (Tungaloy's standard hole)			SPGM090304L																
				SPGM120304L																
				*SPGM120308L																
Finishing to medium cutting	PS (M)			SPMT090304-PS	●	●	●	●	●	●	●	●	●	●	●	▲	●	●		TAC Internal Toolholders (5-18 ~)
				SPMT090308-PS	●	●	●	●	●	●	●	●	●	●	●	▲	●	●		
				SPMT120404-PS	●	●	●	●	●	●	●	●	●	●	●	▲	●	●		
				*SPMT120408-PS	●	●	●	●	●	●	●	●	●	●	●	▲	●	●		
		CM (Ni)			SPMT090304-CM										●					
				*SPMT090308-CM										●						
				SPMT120404-CM										●						
				SPMT120408-CM										●						

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Square, with hole




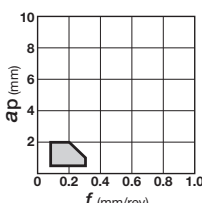

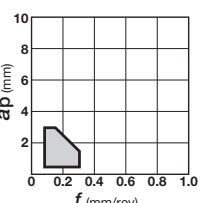

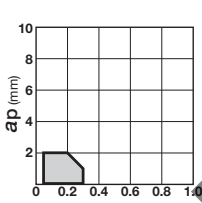

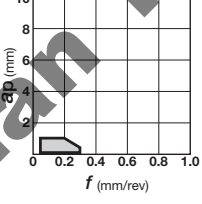

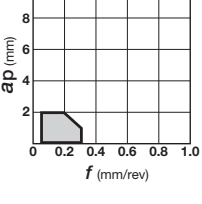
SPMT 09 03 04 -

Cutting edge length (l) Thickness (s) Corner radius (r_E) Chipbreaker symbol

SP T(W)	0903	1204	SPGM(A)	0903	1203
ϕd_1 (mm)	4.4	5.5	ϕd_1 (mm)	4.0	5.0

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)		
	Appearance (Cross section)			Coated					Cermet		Uncoated					
Finishing to medium cutting	23 (M)  		SPMT090304-23 SPMT090308-23 *SPMT120404-23 SPMT120408-23	T9105	T9115	T9125	T9135	T6120	T6130	AH725	T5115	NS730	NS530	TH10	TAC External Toolholders (5-18 ~)	
	24 (M)  		SPMT090304-24 *SPMT090308-24 SPMT120404-24 SPMT120408-24													
	- (M)  		SPMW090304 SPMW090308 *SPMW120404 SPMW120408													
	- (G)  		SPGW090302 *SPGW090304 SPGW120404													
Finishing to medium cutting	- (G) (Tungaloy's standard hole)  		*SPGA090304													

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

C

D

E

S

T

W

V

Y

R

Special

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

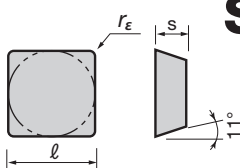
Square, without hole

90°



Positive
11°

SP



SPMR 09 03 04 -

Cutting edge length (l)

Thickness (s)

Corner radius (r_e)

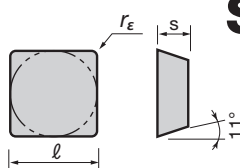
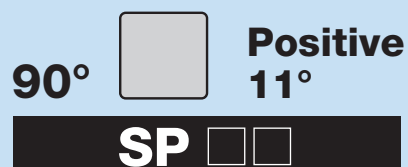
Chipbreaker symbol

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)			
	Appearance (Cross section)			Coated				Cermet		Uncoated	Ceramics						
				T9115	T9125	T6120	T6130	T5115			NS730	NS530	TH10		LX11		
Finishing to medium cutting	- (with hand) (G)		*SPGR090304L									●					TAC External Toolholders (4-73 ~)
			SPMR090304-CM					●									TAC Internal Toolholders (5-59)
	CM (M)		*SPMR090308-CM					●									
			SPMR120304-CM					●									
			SPMR120308-CM					●									
			SPMR120312-CM					●									
	23 (M)		SPMR090304-23									●					
			SPMR090308-23									●					
			SPMR120304-23									●					
			*SPMR120308-23									●					
			SPMR120312-23														
	- (G)		SPGN090304											●		●	
			SPGN090308											●		●	
			SPGN120302														
			*SPGN120304											●		●	
			SPGN120308											●		●	
			SPGN120312								●	●				●	
			SPGN120408											●			



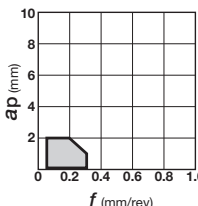
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Square, without hole



SPMN 09 03 04 - 
Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)				
	Appearance (Cross section)			Coated	Cermet		Uncoated	Ceramics										
Finishing to medium cutting	<div>- (M)</div> <div></div> <div></div>		SPMN090304	T5115			NS730	NS530	TH10	UX30	LX11							TAC External Toolholders (4-73 ~)
			SPMN090308															TAC Internal Toolholders (5-59)
			*SPMN120304															
			SPMN120308					●	●		●	●						
			SPMN120312								●							
			SPMN120408								●							
			SPMN120412								●							

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Jinan Terry CNC Tool Co., Ltd.

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

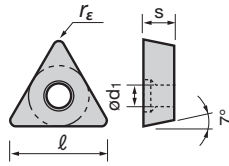
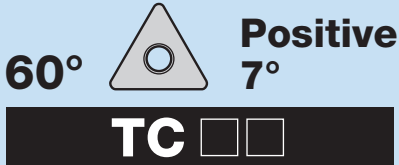
V

Y

R

Special

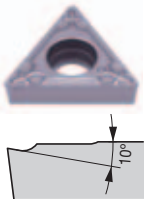
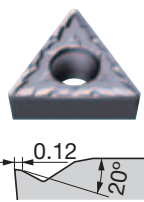
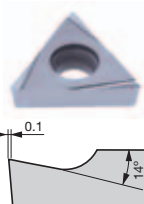
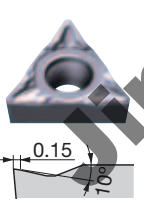
Triangular, with hole



TCGT 09 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

TC□T	0801□□	0802□□-J08	0902□□	1102□□	16T3□□
ød1 (mm)	2.7	2.3	2.5	2.8	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades														Applicable toolholders (pages)								
	Appearance (Cross section)			Coated							Coated cermet		Cermet		Un-coated											
				T9105	T9115	T9125	T9135	T6120	T6130	T5115	AH725	GH730	J740			GT730	AT530	GT530	J530	NS730	NS520	NS530	KS05F	TH10		
Precision finishing	01 (G)		TCGT090202-01																							TAC External Toolholders (4-65, 4-82)
			*TCGT090204-01																							TAC Internal Toolholders (5-19 ~)
			TCGT110202-01																							J-series (8-16)
			TCGT110204-01																							
			TCGT110208-01																							
			TCGT16T304-01																							
Finishing	PSF (M)		TCMT090202-PSF																							TAC External Toolholders (4-65)
			TCMT090204-PSF																							TAC Internal Toolholders (5-19)
			TCMT110202-PSF																							
			*TCMT110204-PSF																							
			TCMT110302-PSF																							
			TCMT110304-PSF																							
Finishing to light cutting	W15 (G)		TCMT16T304-PSF																							TAC External Toolholders (4-65)
			TCGT16T302L-W15																							TAC Internal Toolholders (5-19)
			*TCGT16T304L-W15																							
			TCGT16T308L-W15																							
	PSS (M)		TCMT090204-PSS																							TAC External Toolholders (4-65, 4-82)
			TCMT090208-PSS																							TAC Internal Toolholders (5-19 ~)
			*TCMT110204-PSS																							J-series (8-16)
			TCMT110208-PSS																							
			TCMT110304-PSS																							
			TCMT110308-PSS																							
			TCMT16T304-PSS																							
			TCMT16T308-PSS																							
			TCMT16T312-PSS																							

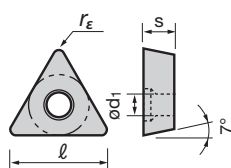
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Triangular, with hole

60°  Positive
7°

TC  




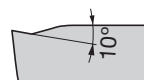
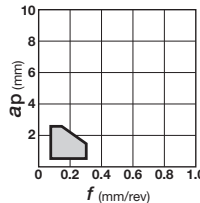
TCMT 09 02 04 - 

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

TC□T	0801□□	0802□□-J08	0902□□	1102□□	16T3□□
ød1 (mm)	2.7	2.3	2.5	2.8	4.4

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																	Applicable toolholders (pages)				
	Appearance (Cross section)			Coated							Coated cermet	Cermet		Uncoated											
				T9115	T9125	T6120	T6130	T6020	T6030	T5115	AH725	AH630	AH645	GH730	J740	GT730	AT530	GT530	NS730	NS520		NS530	KS05F	TH10	
Finishing to medium cutting	PS (M)	  	TCMT090204-PS							●															TAC External Toolholders (4-65, 4-82) TAC Internal Toolholders (5-19 ~) J-series (8-16)
		TCMT090208-PS							●																
		TCMT110202-PS	●	●	●	●	●	●	●	●	●	●		●			●	●	●						
		*TCMT110204-PS	●	●	●	●	●	●	●	●	●	●		●	▲			●	●						
		TCMT110208-PS	●	●	●	●	●	●	●	●	●	●		●	▲			●	●						
		TCMT110302-PS	●	●	●	●	●	●	●	●	●	●		●											
		TCMT110304-PS	●	●	●	●	●	●	●	●	●	●		●			●	●							
		TCMT110308-PS	●	●	●	●	●	●	●	●	●	●		●			●	●							
		TCMT16T302-PS	●	●	●	●	●	●	●	●	●	●		●			●	●							
		TCMT16T304-PS	●	●	●	●	●	●	●	●	●	●		●			●	●		●					
		TCMT16T308-PS	●	●	●	●	●	●	●	●	●	●		●	▲		●	●							
		TCMT090204-CM							●																
		TCMT090208-CM							●																
		TCMT110204-CM							●																
		TCMT110208-CM							●																
		*TCMT110304-CM							●																
		TCMT110308-CM							●																
		TCMT16T304-CM							●																
	TCMT16T308-CM							●																	
	TCMT16T312-CM							●																	
	TCGT110202-SS																		●						
	TCGT110204-SS																		●						
	*TCGT110208-SS																		●						
	TCGT16T304-SS																		●						
	TCGT16T308-SS																		●						

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

C

D

E

S

T

W

V

Y

R

Special

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

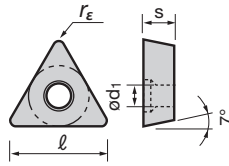
Triangular, with hole

60°



Positive
7°

TC



TCGT 11 02 02 -



Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

TC	T	0801	0802	0902	1102	16T3
ød1 (mm)		2.7	2.3	2.5	2.8	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)							
	Appearance (Cross section)			Coated					Coated cermet	Cermet		Uncoated									
				T9105	T9115	T9125	T9135	T6120	T6130	AH725	GH730	J740	SH730	J530		NS730	NS530		KS05F	TH10	
Finishing to medium cutting	AL (G)		TCGT110202-AL TCGT110204-AL *TCGT16T302-AL TCGT16T304-AL TCGT16T308-AL																		
For external turning on small lathes (Sharp edges)	JS (G)		TCGT110200FN-JS *TCGT110201FN-JS TCGT110202FN-JS TCGT110204FN-JS																		
For external turning on small lathes (Honed edges)	JS (G)		*TCGT110201N-JS TCGT110202N-JS TCGT110204N-JS																		
For external turning on small lathes (Sharp edges)	J08 (G)		TCGT080200FR-J08 TCGT080200FL-J08 TCGT080201FR-J08 TCGT080201FL-J08 *TCGT080202FR-J08 TCGT080202FL-J08																		
On small lathes (Honed edges)	J08 (G)		TCGT080201R-J08 TCGT080201L-J08 *TCGT080202R-J08 TCGT080202L-J08																		

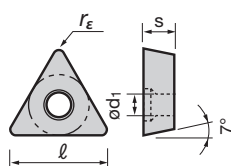
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Triangular, with hole

60°  Positive
7°

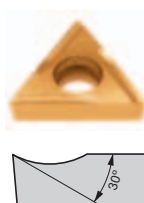

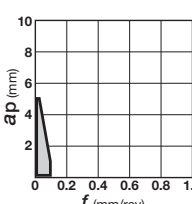
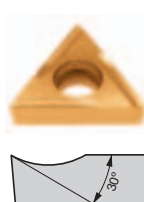

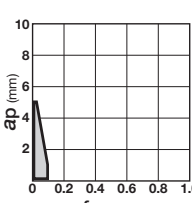


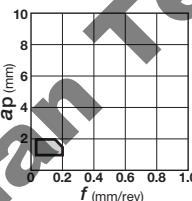


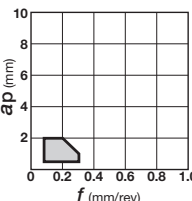
TC 



TCGT 09 02 02 - 

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

TC	T	0801	0802	0902	1102	16T3
ød1 (mm)		2.7	2.3	2.5	2.8	4.4

Application	Chipbreaker		$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)
	Appearance (Cross section)	$f - a_p$			Coated				Coated cermet		Cermet		Uncoated		
T6120			T6130	AH725	GH730	J740	GT730	J530	NS730	NS530	TH10				
On small lathes (Sharp edges)	J10 (G)  		TCGT110200FR-J10												TAC External Toolholders (4-65, 4-82) TAC Internal Toolholders (5-19) J-series (8-16)
			TCGT110200FL-J10												
			TCGT110201FR-J10												
			TCGT110201FL-J10												
			TCGT110202FR-J10												
			TCGT110202FL-J10												
			TCGT110300FR-J10												
			TCGT110300FL-J10												
			TCGT110301FR-J10												
			TCGT110301FL-J10												
			*TCGT110302FR-J10												
			TCGT110302FL-J10												
On small lathes (Honed edges)	J10 (G)  		TCGT110201R-J10												
			TCGT110201L-J10												
			TCGT110202R-J10												
			TCGT110202L-J10												
			*TCGT110301R-J10												
			TCGT110301L-J10												
			TCGT110302R-J10												
			TCGT110302L-J10												
Finishing	- (with hand) (G)  		*TCGT080102R												
Finishing to medium cutting	23 (M)  		TCMT090202-23												TAC External Toolholders (4-65, 4-82) TAC Internal Toolholders (5-19 ~) J-series (8-16)
			TCMT090204-23												
			TCMT110202-23												
			*TCMT110204-23												
			TCMT110208-23												
			TCMT16T304-23												
			TCMT16T308-23												

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

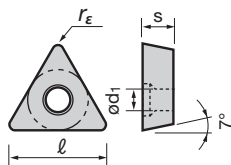
Triangular, with hole

60°



Positive
7°

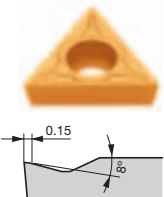
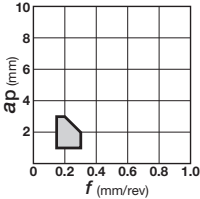
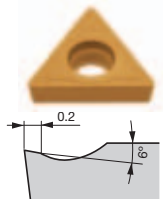
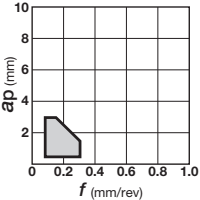
TC



TCMT 09 02 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

TC T	0801	0802-J08	0902	1102	16T3
ød1 (mm)	2.7	2.3	2.5	2.8	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)	
	Appearance (Cross section)			Coated										Coated cermet		Cermet		Uncoated			
				T9105	T9115	T9125	T9135	T6120	T6130	T6020	T6030	AH725	AH630	AH645	GT730	J530	NS730		NS530		TH10
Medium cutting	PM (M)			TCMT110202-PM																	TAC External Toolholders (4-65, 4-82) TAC Internal Toolholders (5-19 ~) J-series (8-16)
	24 (M)			TCMT110204-PM																	

Note: Chipbreaker cross-sections are of * marked inserts.

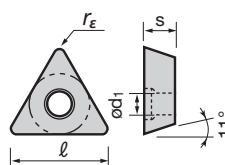
● : Stocked items
▲ : Discontinued items

Jinan Terry CNC Tool Co., Ltd.

Triangular, with hole

60°  Positive 11°

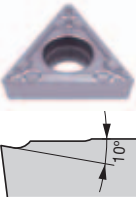
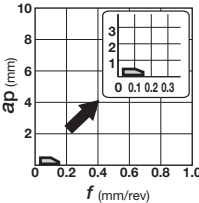
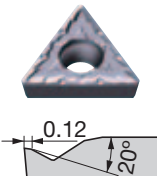
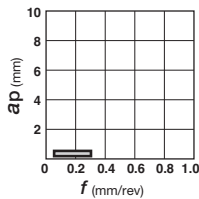
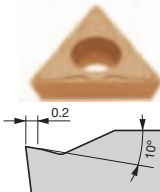
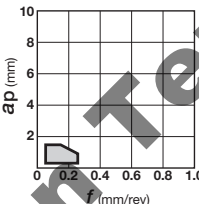
TP 



TPGT 09 02 02 -

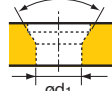
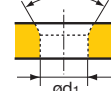
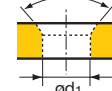
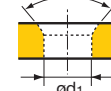
Cutting edge length (ℓ) Thickness (s) Corner radius (r_E) Chipbreaker symbol

	0701	0802	0902	1102	1103	1303	1603	16T3
TP□T(W)	-	2.3	2.5	2.8	3.4	3.4	-	4.4
TPGM(A)	2.7	-	3.2	3.0	3.0	-	4.0	-
TPGH	-	2.3	3.0	3.4	3.4	-	4.5	-

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)									
	Appearance (Cross section)			Coated						Coated cermet	Cermet		Uncoated													
Precision finishing	01 (G)			TPGT090202-01	T9105	T9115	T9125	T9135	T6120	T6130	T6020	T6030	GH110	GH330	GH730	AH725	SH730	GT720	GT730	GT530	NS730	NS520	NS530	TH10	UX30	TAC External Toolholders (5-20)
	*TPGT090204-01																									
	TPGT110202-01																									
	TPGT110204-01																									
	TPGT110208-01																									
	TPGT130302-01																									
	TPGT130304-01																									
	TPGT130308-01																									
	TPGT16T304-01																									
	TPGT16T308-01																									
Finishing	PSF (M)			TPMT090202-PSF																						
	TPMT090204-PSF																									
	TPMT110202-PSF																									
	*TPMT110204-PSF																									
	TPMT110302-PSF																									
	TPMT110304-PSF																									
	TPMT130304-PSF																									
	TPMT16T304-PSF																									
	PF (M)			TPMT110204-PF																						
	TPMT110208-PF																									
	TPMT110302-PF																									
	TPMT110304-PF																									
	TPMT130304-PF																									
	TPMT130308-PF																									
	*TPMT16T304-PF																									
	TPMT16T308-PF																									

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Mounting hole specifications	TP□T 60° 	TPGM0701 60° 	TPGM (A) 0902~1603 80° 	TPGH 81° 
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2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

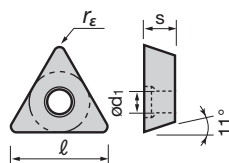
2

60°



Positive
11°

TP

TPGT 08 02 02L - ☐☐

Cutting edge length (ℓ) Thickness (s) Corner radius (r_f) Chipbreaker symbol

		0701	0802	0902	1102	1103	1303	1603	16T3
Ø1 (mm)	TP□T(W)	-	2.3	2.5	2.8	3.4	3.4	-	4.4
	TPGM(A)	2.7	-	3.2	3.0	3.0	-	4.0	-
	TPGH	-	2.3	3.0	3.4	3.4	-	4.5	-

[illegible]

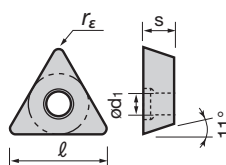
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Triangular, with hole

60°  Positive 11°

TP 



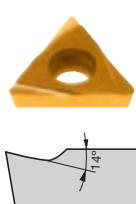
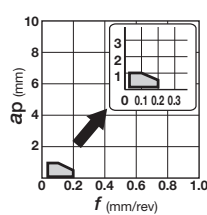
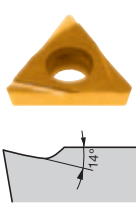
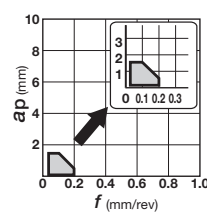
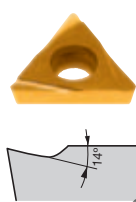
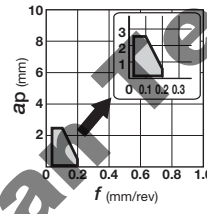
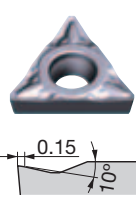
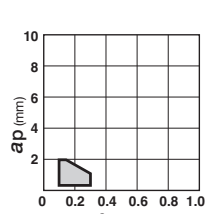
TPGH 09 02 02L -

Cutting edge length (ℓ) Thickness (s) Corner radius (r_E) Chipbreaker symbol

	0701	0802	0902	1102	1103	1303	1603	16T3
TP (T(W))	-	2.3	2.5	2.8	3.4	3.4	-	4.4
TPGM(A)	2.7	-	3.2	3.0	3.0	-	4.0	-
TPGH	-	2.3	3.0	3.4	3.4	-	4.5	-

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)				
	Appearance (Cross section)			Coated										Coated cermet	Cermet		Uncoated							
Finishing	W10 (G)			*TPGH080202R-W10	T9105	T9115	T9125	T9135	T6120	T6130	AH725	AH630	AH645	GH110	GH330	GH730	GT730	AT530	NS730	NS530	TH10	UX30	J-series (5-20 ~)	
				TPGH080202L-W10													●							
				TPGH080204R-W10														●						
				TPGH080204L-W10														●						
				TPGH090202R-W10																				
				TPGH090202L-W10																				
				TPGH090204R-W10																				
				TPGH090204L-W10														●						
Finishing	W13 (G)			*TPGH110202R-W13																			J-series (5-20 ~)	
				TPGH110202L-W13																				
				TPGH110204R-W13														●						
				TPGH110204L-W13																				
				TPGH110302R-W13																				
				TPGH110302L-W13														●						
				TPGH110304R-W13																				
				TPGH110304L-W13														●						
Finishing to light cutting	W18 (G)			*TPGH160302R-W18																				
				TPGH160302L-W18																				
				TPGH160304R-W18																				
				TPGH160304L-W18																				
Finishing to light cutting	PSS (M)			TPMT090204-PSS	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●		
				TPMT090208-PSS	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●		
				*TPMT110204-PSS	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●		
				TPMT110208-PSS	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●		
				TPMT110304-PSS	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●		
				TPMT110308-PSS	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●		
				TPMT130304-PSS	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●		
				TPMT130308-PSS	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●		
				TPMT16T304-PSS	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●		
				*TPMT16T308-PSS	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●		

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

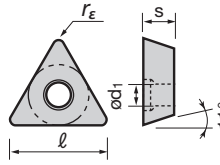
Triangular, with hole

60°



Positive
11°

TP



TPGT 11 02 02 -

Cutting edge length (l) Thickness (S) Corner radius (r_E) Chipbreaker symbol

	0701	0802	0902	1102	1103	1303	1603	16T3
TP(T)(W)	-	2.3	2.5	2.8	3.4	3.4	-	4.4
TPGM(A)	2.7	-	3.2	3.0	3.0	-	4.0	-
TPGH	-	2.3	3.0	3.4	3.4	-	4.5	-

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)
	Appearance (Cross section)			Coated												Coated cermet	Cermet		Uncoated	
				T9115	T9125	T6120	T6130	T6020	T6030	T5115	AH725	AH630	AH645	GH330	GH730	AT530	NS730	NS530	TH10	
Finishing to medium cutting	PS (M)			TPMT090202-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	TAC External Toolholders (5-20 ~)
			TPMT090204-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
			TPMT090208-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			TPMT110202-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			*TPMT110204-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			TPMT110208-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			TPMT110304-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			TPMT110308-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			TPMT130302-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			TPMT130304-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			TPMT130308-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			TPMT16T304-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			TPMT16T308-PS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			TPMT090204-CM						●											
			TPMT090208-CM						●											
			TPMT110204-CM						●											
			TPMT110208-CM						●											
			*TPMT110304-CM						●											
			TPMT110308-CM						●											
			TPMT130304-CM						●											
			TPMT130308-CM						●											
			TPMT16T304-CM						●											
			TPMT16T308-CM						●											
			TPMT16T312-CM						●											
	23 (G)			TPMT090202-23													●			
				TPMT090204-23													●			
				TPMT110204-23													●			
				TPMT110208-23													●			
				TPMT130304-23													●			
				TPMT130308-23													●			
				TPMT16T304-23													●			
				TPMT16T308-23													●			
				TPMT16T312-23													●			
				TPMT16T308-23													●			
	SS (G)			TPGT110202-SS													●			
				*TPGT110204-SS							●						●			
				TPGT110208-SS													●			
				TPGT130302-SS													●			
				TPGT130304-SS							●						●			
				TPGT130308-SS													●			
				TPGT16T304-SS							●						●			
				TPGT16T308-SS													●			

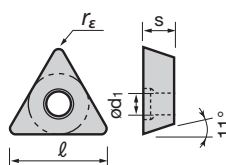
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Triangular, with hole

60°  Positive 11°

TP 



TPGH 11 03 02R -

Cutting edge length (ℓ) Thickness (s) Corner radius (r_E) Chipbreaker symbol

	0701	0802	0902	1102	1103	1303	1603	16T3
TP T(W)	-	2.3	2.5	2.8	3.4	3.4	-	4.4
TPGM(A)	2.7	-	3.2	3.0	3.0	-	4.0	-
TPGH	-	2.3	3.0	3.4	3.4	-	4.5	-

2

TAC Inserts

C

D

E

S

T


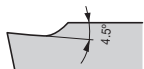
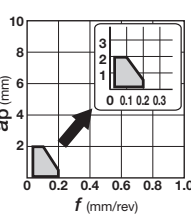


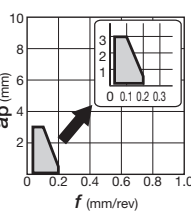


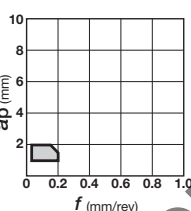
W

V

Y

R

Special

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																Applicable toolholders (pages)			
	Appearance (Cross section)			Coated								Coated cermet		Cermet		Uncoated							
				T9105	T9115	T9125	T9135	T6120	T6130	T5115	AH725	GH330	GH730	GT730	AT530		NS730	NS530		TH10	UX30		
Finishing to medium cutting	H11 (G)	  	*TPGH110302R-H11 TPGH110302L-H11 TPGH110304R-H11 TPGH110304L-H11																				
	H13 (G)	  	*TPGH160304R-H13 TPGH160304L-H13																				
	- (with hand) (G) Tungaloy-standard hole Not ISO  TPGM  R/L		*TPGM070102R TPGM070102L TPGM070104R TPGM070104L TPGM090202R TPGM090202L TPGM090204L TPGM110202R *TPGM110202L TPGM110204R TPGM110204L TPGM110302R TPGM110302L TPGM110302L-2 TPGM110304R TPGM110304L TPGM110304L-2 TPGM160302L TPGM160304R TPGM160304L *TPGM160304L-2																				

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

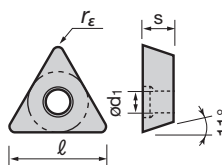
Triangular, with hole

60°



Positive
11°

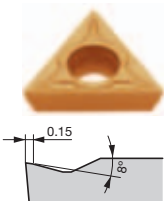
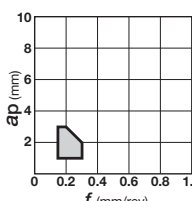
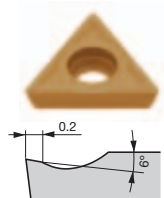
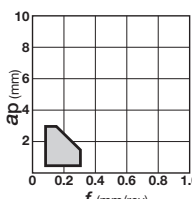

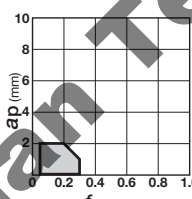

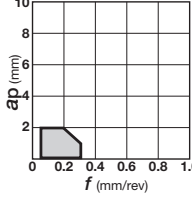
TP



TPMT 09 02 04 -

Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

	0701	0802	0902	1102	1103	1303	1603	16T3
TP(T(W))	-	2.3	2.5	2.8	3.4	3.4	-	4.4
TPGM(A)	2.7	-	3.2	3.0	3.0	-	4.0	-
TPGH	-	2.3	3.0	3.4	3.4	-	4.5	-

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)						
	Appearance (Cross section)			Coated						Coated cermet	Cermet		Uncoated									
Medium cutting	PM (M)			TPMT090204-PM	T9115	T9125	T6120	T6130	T6020	T6030	T5115	AH725	AH630	AH645	GH330	GT730	AT530			NS730	NS530	TH10
				TPMT090208-PM																		
				TPMT110204-PM																		
				TPMT110208-PM																		
				TPMT110304-PM																		
				TPMT110308-PM																		
				TPMT130304-PM																		
				TPMT130308-PM																		
				*TPMT16T304-PM																		
				TPMT16T308-PM																		
			TPMT16T312-PM																			
Medium cutting	24 (M)			TPMT090202-24																		
				TPMT090204-24																		
				TPMT110204-24																		
				*TPMT110208-24																		
				TPMT130304-24																		
				TPMT130308-24																		
				TPMT16T304-24																		
				TPMT16T308-24																		
	Finishing to medium cutting	- (M)			TPMW110204																	
					TPMW110208																	
				*TPMW130304																		
				TPMW130308																		
				TPMW16T304																		
				TPMW16T308																		
Finishing to medium cutting		- (G)			TPGA090204																	
					TPGA110202																	
					*TPGA110204																	
					TPGA110302																	
				TPGA110304																		
				TPGA160304																		
			TPGA160308																			

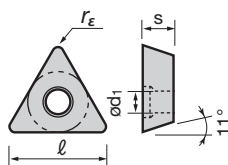
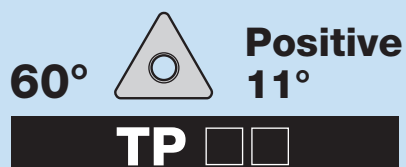
TAC Internal Toolholders (5-20 ~)

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Mounting hole specifications	TP(T)	TPGM0701	TPGM (A) 0902~1603	TPGH



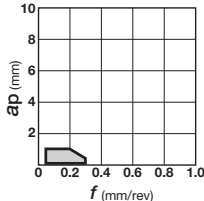
Triangular, with hole



TPGW 09 02 02

Cutting edge length (ℓ) Thickness (s) Corner radius (r_ε)

TPGW	0902	1102	1103	1303	16T3
ød1 (mm)	2.5	2.8	3.4	3.4	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)	
	Appearance (Cross section)			Coated							Coated cermet	Cermet		Un-coated				
				T9105	T9115	T9125	T9135	T6120	T6130	T5115	GH110		GT730		NS730	NS530		
Finishing to medium cutting	- (G)	 		TPGW090202														TAC Internal Toolholders (5-20 ~)
	TPGW090204																	
	TPGW110202																	
	TPGW110204																	
	*TPGW110304																	
	TPGW130304																	
	TPGW16T304																	
	TPGW16T308																	

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Jinan Terry CNC Tool Co., Ltd.

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

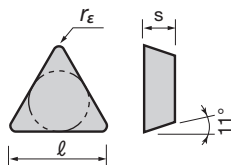
Triangular, without hole

60°



Positive
11°

TP



TPMR 11 03 04 -

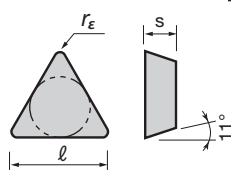
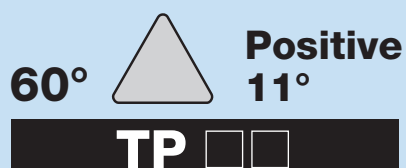
Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)			
	Appearance (Cross section)			Coated						Coated cermet	Cermet		Un-coated						
				T9105	T9115	T9125	T9135	T6120	T6130	T5115	GH110		GT730		NS730	NS530		TH10	
Finishing to medium cutting	- (with hand) (G)		TPGR110302L *TPGR110304L TPGR160304R TPGR160304L TPGR160308L													●	●		
	PS (M)		*TPMR110304-PS TPMR110308-PS TPMR160304-PS TPMR160308-PS			●							●						
	CM (M)		TPMR110304-CM *TPMR110308-CM TPMR160304-CM TPMR160308-CM TPMR160312-CM							●									
	23 (M)		*TPMR110304-23 TPMR110308-23 TPMR160304-23 TPMR160308-23 TPMR160312-23													●	●	▲	

Note: Chipbreaker cross-sections are of * marked inserts.

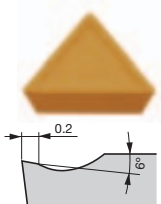
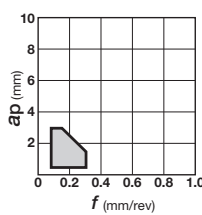
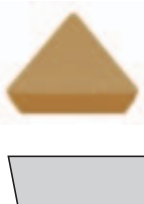
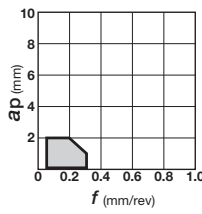
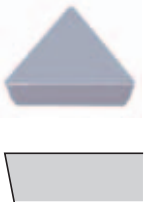
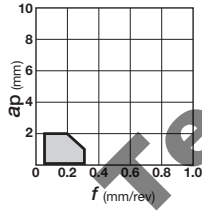
● : Stocked items
▲ : Discontinued items

Triangular, without hole



TPGN 16 03 12

Cutting edge length (l) Thickness (s) Corner radius (r_E)

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades								Applicable toolholders (pages)						
	Appearance (Cross section)			Coated		Cermet	Uncoated		Ceramics									
				T9115	T9125	T6120	T6130	T5115	GH110	NS530		TH10	UX30		LX21	LX11		
Medium cutting	24 (M)		TPMR090204-24							●								TAC External Toolholders (4-73)
			*TPMR110304-24							●								TAC Internal Toolholders (5-50)
			TPMR110308-24							●								
			TPMR160304-24							●								
			TPMR160308-24							●								
Finishing to medium cutting	- (M)		TPMN110304					●					●					
			TPMN110308					●					●					
			*TPMN160304					●					●					
			TPMN160308					●					●	●				
			TPMN160312					●										
			TPMN220408											●				
	- (G)		TPGN110302										●					
			TPGN110304					●					●			●	●	
			TPGN110308										●				●	
			TPGN160302										●					
			*TPGN160304						●		●		●			●		
			TPGN160308						●		●		●			●		
			TPGN160312													●		
			TPGN220404										●					

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Jinan X CNC Tool Co., Ltd.

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

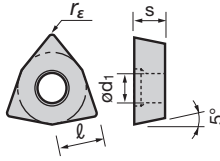
Trigon, with hole

80°



Positive
5°

WBGT

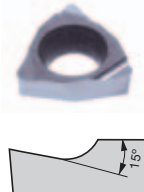
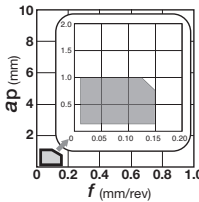
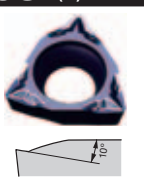
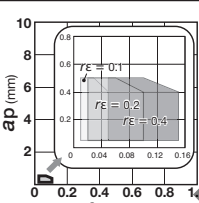


WBGT 03 01 02 -



Cutting edge length (l) Thickness (s) Corner radius (r_E) Chipbreaker symbol

WBGT	0301	0601	0802
phi_d1 (mm)	2.3	2.3	2.3

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)		
	Appearance (Cross section)			Coated						Coated cermet	Cermets					
Finishing	W08 (G)	 	WBGT030100R-W08	T9105	T9115	T9125	T9135	GH110	SH730			NS530		TH10	UX30	TAC Internal Toolholders (5-29 ~)
			WBGT030100L-W08													
			WBGT030101R-W08													
			WBGT030101L-W08													
			*WBGT030102R-W08													
			WBGT030102L-W08													
			WBGT030104R-W08													
			WBGT030104L-W08													
			WBGT060102L-W11													
			WBGT060104L-W11													
			WBGT080202L-W11													
		*WBGT080204L-W11														
For internal turning on small lathes	JS (G)	 	*WBGT030101R-JS													
			WBGT030101L-JS													
			WBGT030102R-JS													
			WBGT030102L-JS													
			WBGT030104R-JS													
			WBGT030104L-JS													

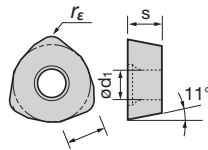
Trigon, with hole

80°



Positive
11°

WPMT



WPMT 09 07 25ZPR - ML

Cutting edge length (l) Thickness (s) Corner radius (r_E) Chipbreaker symbol

WPMT	090725
phi_d1 (mm)	5.5

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	Appearance (Cross section)			Coated																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Heavy	ML (M)		*WPMT090725ZPR-ML	T9105	T9115	T9125	T9135	AH120																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

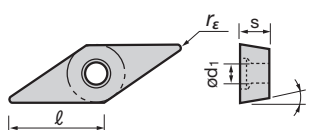
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole

35° Positive
5°

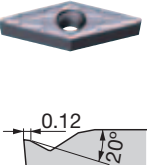
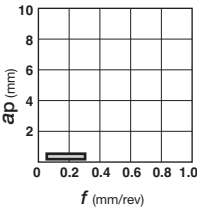
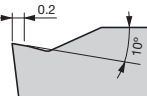
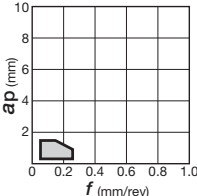
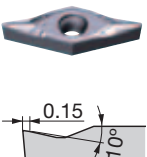
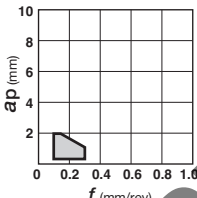
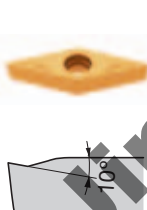
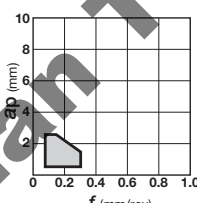
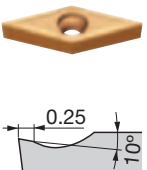
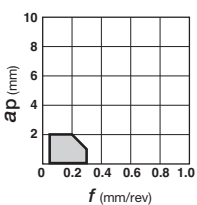
VB



VBMT 11 03 02 -

Cutting edge length (l) Thickness (s) Corner radius (re) Chipbreaker symbol

VB	T	1103	1604
ød1 (mm)		2.8	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades																	Applicable toolholders (pages)	
	Appearance (Cross section)			Coated						Coated cermet	Cermet		Uncoated									
Finishing	PSF (M)	 	VBMT110302-PSF VBMT110304-PSF VBMT160402-PSF *VBMT160404-PSF	T9105	T9115	T9125	T9135	T6120	T6130	T6020	T6030	T5115	AH725	AH630	AH645	GT730	AT530	J530	NS730	NS530	TH10	TAC Internal Toolholders (5-22 ~) J-series (8-17 ~)
	PF (M)	 	VBMT110302-PF VBMT110304-PF *VBMT110308-PF VBMT160404-PF VBMT160408-PF																			
	PSS (M)	 	VBMT110304-PSS VBMT110308-PSS *VBMT160404-PSS VBMT160408-PSS VBMT160412-PSS																			
	PS (M)	 	*VBMT110302-PS VBMT110304-PS VBMT110308-PS VBMT160402-PS VBMT160404-PS VBMT160408-PS																			
Finishing to medium cutting	CM (M)	 	VBMT110304-CM VBMT110308-CM *VBMT160404-CM VBMT160408-CM VBMT160412-CM																			

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

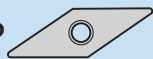
Y

R

Special

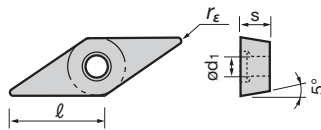
Rhombic, with hole

35°



Positive
5°

VB


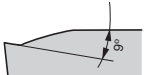
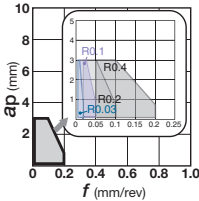

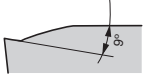
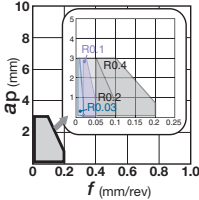

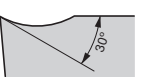
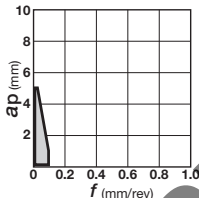


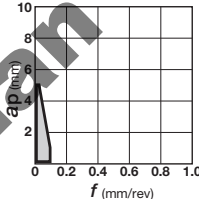


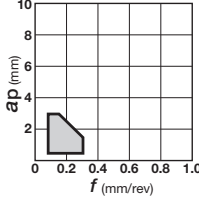


VBGT 11 03 02 -



Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

VB□T	1103□□	1604□□
ød1 (mm)	2.8	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades											Applicable toolholders (pages)						
	Appearance (Cross section)			Coated					Coated cermet		Cermet	Uncoated									
				T9105	T9115	T9125	T9135	T6120	T6130	T5115	AH725	J740	SH730	GT730	AT530	J530	NS730	NS530	TH10		
For external turning on small lathes (Sharp edges)	JS (G)	 	 a_p (mm) f (mm/rev)	VBGT110300FN-JS									●								TAC Internal Toolholders (5-22 ~) J-series (8-17 ~)
				VBGT110301FN-JS								●									
				VBGT110302FN-JS								●									
				*VBGT110304FN-JS								●									
On small lathes	JS (G)	 	 a_p (mm) f (mm/rev)	VBGT110301N-JS								●									
				VBGT110302N-JS								●									
				*VBGT110304N-JS								●									
For external turning on small lathes (Sharp edges)	J10 (G)	 	 a_p (mm) f (mm/rev)	*VBGT110300FR-J10								●								●	
				VBGT110300FL-J10								●								●	
				VBGT110301FR-J10								●						●		●	
				VBGT110301FL-J10								●						●		●	
				VBGT110302FR-J10								●						●		●	
				VBGT110302FL-J10								●						●		●	
				VBGT110304FR-J10								●						●		●	
				VBGT110304FL-J10								●						●		●	
For external turning on small lathes (Honed edges)	J10 (G)	 	 a_p (mm) f (mm/rev)	VBGT110301R-J10																	
				VBGT110301L-J10																	
				*VBGT110302R-J10												●					
				VBGT110302L-J10												●					
				VBGT110304R-J10												●					
				VBGT110304L-J10												●					
Medium cutting	24 (M)	 	 a_p (mm) f (mm/rev)	* VBMT160404-24														●			
				VBMT160408-24														●			

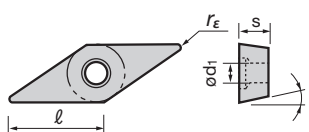
Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

Rhombic, with hole

35° Positive
7°

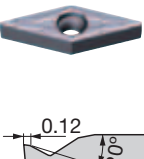
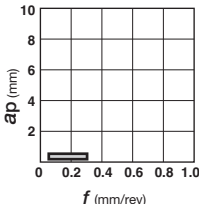
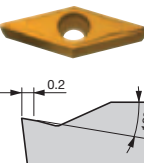
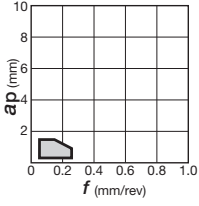
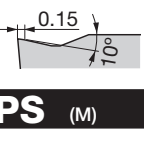
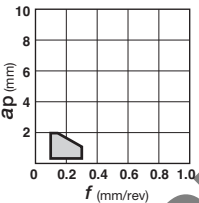

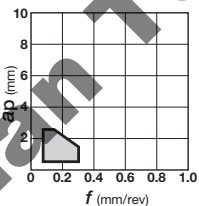
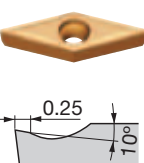
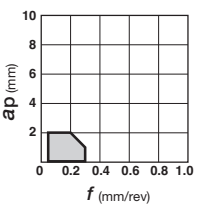
VC



VCMT 11 03 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

VC□□	0802□□	1103□□	1604□□	2205□□
ød1 (mm)	2.3	2.8	4.4	5.5

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades														Applicable toolholders (pages)		
	Appearance (Cross section)			Coated						Coated cermet	Cermet		Uncoated							
Finishing	PSF (M)		VCMT080202-PSF	T9115	T9125	T6120	T6130	T6020	T6030	T5115	AH725	AH630	AH645	AH905	GT730	AT530	NS730	NS530	KS05F	TAC External Toolholders (4-65 ~)
			VCMT080204-PSF	●	●						●									TAC Internal Toolholders (5-22)
			VCMT110302-PSF								●									
			VCMT110304-PSF	●	●						●									
			*VCMT160404-PSF	●	●						●			●						
Finishing to light cutting	PF (M)		VCMT080202-PF					●	●							●		●		
			VCMT080204-PF					●	●							●		●		
			VCMT160404-PF					●	●							●		●		
			*VCMT160408-PF					●	●							●		●		
Finishing to medium cutting	PS (M)		VCMT110304-PSS	●	●	●	●				●	●	●							
			VCMT110308-PSS	●	●	●	●				●	●	●							
			*VCMT160404-PSS	●	●	●	●				●	●	●	●						
			VCMT160408-PSS	●	●	●	●				●	●	●	●						
	PS (M)		VCMT110302-PS	●	●	●	●	●	●		●	●	●		●	▲	●	●		
			VCMT110304-PS	●	●	●	●	●	●		●	●	●		●	▲	●	●		
			*VCMT110308-PS	●	●	●	●	●	●		●	●	●		●	▲	●	●		
			VCMT160404-PS	●	●	●	●	●	●		●	●	●		●	▲	●	●		
			VCMT160408-PS	●	●	●	●	●	●		●	●	●		●	▲	●	●		
	CM (M)		VCMT080204-CM							●										
			*VCMT160404-CM							●										
			VCMT160408-CM							●										
			VCMT160412-CM							●										

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

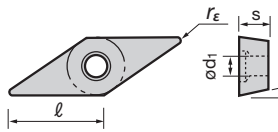
R

Special

Rhombic, with hole

35° Positive 7°

VC



VCGT 16 04 04 -

Cutting edge length (l) Thickness (s) Corner radius (re) Chipbreaker symbol

VC	0802	1103	1604	2205
ød1 (mm)	2.3	2.8	4.4	5.5

Application	Chipbreaker Appearance (Cross section)	f - ap	Insert Cat. No.	Stocked grades					Applicable toolholders (pages)
				Coated	Cermet	Uncoated			
Finishing to medium cutting	AL (G)		VCGT160404-AL VCGT160408-AL *VCGT160412-AL VCGT220520-AL VCGT220530-AL	T6120 T6130 T5115 AH905	NS530	KS05F			TAC External Toolholders (4-65 ~) TAC Internal Toolholders (5-22)
	24 (M)		VCMT160404-24 *VCMT160408-24						
	All-round (M)		VCMT160404 *VCMT160408 VCMT160412						

Note: Chipbreaker cross-sections are of * marked inserts.

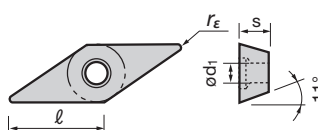
● : Stocked items
▲ : Discontinued items

Jinan Terry CNC Tool Co., Ltd.

Rhombic, with hole

35° Positive 11°

VP



VPET 11 03 02 -

Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

VPET	0802	1103
od1 (mm)	2.3	2.8

2

TAC Inserts

Application	Chipbreaker Appearance (Cross section)	f - a _p	Insert Cat. No.	Stocked grades				Applicable toolholders (pages)
				Coated		Cermet	Uncoated	
				T6120 T6130 T5115 SH730		NS530	KS05F	
For external turning on small lathes (Sharp edges)	JRP (E) 		VPET0802008MFR-JRP					J-series (8-19)
			VPET0802008MFL-JRP					
			VPET080201 MFR-JRP					
			VPET080201 MFL-JRP					
			VPET0802018MFR-JRP					
			VPET0802018MFL-JRP					
			VPET080202 MFR-JRP					
			VPET080202 MFL-JRP					
			VPET1103008MFR-JRP					
			VPET1103008MFL-JRP					
			VPET110301 MFR-JRP					
			VPET110301 MFL-JRP					
			VPET1103018MFR-JRP					
			VPET1103018MFL-JRP					
			*VPET110302 MFR-JRP					
			VPET110302 MFL-JRP					
	JPP (E) 		VPET0802008MFR-JPP					
			VPET0802008MFL-JPP					
			VPET080201 MFR-JPP					
			VPET080201 MFL-JPP					
			VPET0802018MFR-JPP					
			VPET0802018MFL-JPP					
			VPET080202 MFR-JPP					
			VPET080202 MFL-JPP					
			VPET1103008MFR-JPP					
			VPET1103008MFL-JPP					
			VPET110301 MFR-JPP					
			VPET110301 MFL-JPP					
			VPET1103018MFR-JPP					
			VPET1103018MFL-JPP					
			*VPET110302 MFR-JPP					
			VPET110302 MFL-JPP					

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

C

D

E

S

T

W

V

Y

R

Special

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

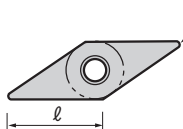
Rhombic, with hole

35°



Positive
11°

VP



VPET 11 03 02 -



Cutting edge length (l) Thickness (s) Corner radius (r_e) Chipbreaker symbol

VPET	0802	1103
ød1 (mm)	2.3	2.8

Application	Chipbreaker	<i>f</i> - <i>a_p</i>	Insert Cat. No.	Stocked grades			Applicable toolholders (pages)
	Appearance (Cross section)			Coated	Cermet	Uncoated	
For external turning on small lathes (Sharp edges)	JSP (E) 		VPET0802008MFN-JSP	●			J-series (8-19)
			VPET080201 MFN-JSP	●			
			VPET0802018MFN-JSP	●			
			VPET080202 MFN-JSP	●			
			VPET1103008MFN-JSP	●			
			VPET110301 MFN-JSP	●			
			VPET1103018MFN-JSP	●			
			*VPET110302 MFN-JSP	●			

Note: Chipbreaker cross-sections are of * marked inserts.

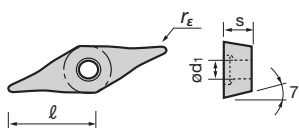
● : Stocked items
▲ : Discontinued items

Jinan Terry CNC Tool Co., Ltd.

Rhombic, with hole

25° **Positive**
7°

YWMT



YWMT 16 T3 04 -

Cutting edge length (l) Thickness (s) Corner radius (rE) Chipbreaker symbol

YWMT	11T2	16T3
ød1 (mm)	2.3	2.86

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades													Applicable toolholders (pages)	
	Appearance (Cross section)			Coated						Coated cermet	Cermet		Uncoated					
				T9105	T9115	T9125	T9135	T6120	T6130	AH725	GT730	AT530	NS730	NS530	KS05F			
Finishing to medium cutting	ZF (M)			YWMT11T202-ZF		●					●							TAC External Toolholders (4-43) TAC Internal Toolholders (5-30)
				YWMT11T204-ZF		●					●							
				*YWMT16T302-ZF		●					●							
				YWMT16T304-ZF		●					●							
				YWMT16T308-ZF		●					●							
	ZM (M)			YWMT11T204-ZM		●					●							
				*YWMT16T304-ZM		●					●							
				YWMT16T308-ZM		●					●							

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

Special

Jinan Terry CNC Tool Co., Ltd.

TAC Inserts, positive

2

TAC Inserts

C

D

E

S

T

W

V

Y

R

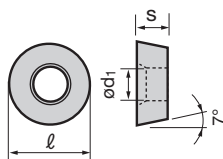
Special

Round, with hole



**Positive
7°**

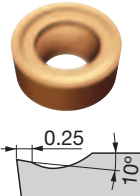
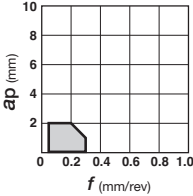
RC



RCGT 06 02 M0 -



Cutting edge length (l) Thickness (s) Corner radius (r_c) Chipbreaker symbol
Hole dia. ($\phi d1$) : See as below.

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)							
	Appearance (Cross section)			Coated					Cermet		Uncoated										
Finishing to medium cutting	CM (M)			RCMT0502M0-CM	T9105	T9115	T9125	T9135	T5115	AH905											TAC External Toolholders (4-61, 4-62)
				RCMT0602M0-CM																	
				*RCMT0803M0-CM																	
															</						

Note: Chipbreaker cross-sections are of * marked inserts.

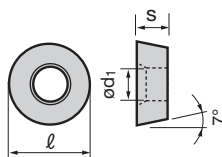
● : Stocked items
▲ : Discontinued items

Round, with hole



**Positive
7°**

RC




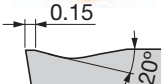
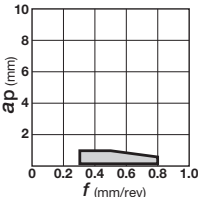

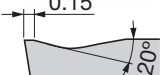
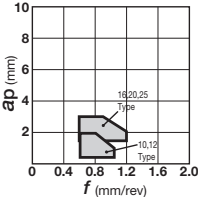
RCMT 06 02 M0 -



Cutting edge length (l) Thickness (s) Corner radius (r_c) Chipbreaker symbol
Hole dia. (ød1) : See as below.

2

TAC Inserts

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades												Applicable toolholders (pages)
	Appearance (Cross section)			Coated					Cermet		Uncoated					
				T9105	T9115	T9125	T9135	T5115	AH905	NS730	NS530	KS05F	TH10			
Heavy cutting	61 (M)	 		RCMT0502M0-61	●	●					●					TAC External Toolholders (4-61, 4-62)
				*RCMT0602M0-61	●	●				●		●				
				RCMT0803M0-61	●	●				●		●				
		61 (M)	 		RCMM1003M0-61	●	●			●		●		●		
				RCMM1204M0-61	●	●			●		●		●			
				*RCMM1606M0-61	●	●			●		●		●			
				RCMM2006M0-61	●	●			●		●		●			
				RCMM2507M0-61	●	●			●		●		●			

Note: Chipbreaker cross-sections are of * marked inserts.

● : Stocked items
▲ : Discontinued items

ød1 (mm)	Cat. No.	0502M0	0602M0	0803M0	1003M0	10T3M0	1204M0	1606M0	2006M0	2507M0
	RC□T	2.5	2.8	3.4	4.4	4.4	4.4	5.5	6.5	7.6
	RCMM	-	-	-	3.6	-	4.2	5.2	6.5	7.2

C

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Special

Jinan Terry CNC Tool Co., Ltd.

TAC Inserts, positive

2

TAC Inserts

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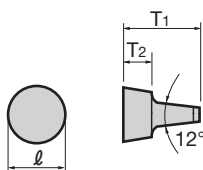
Special

Special Round Inserts



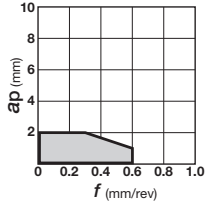

Positive

RT



RT 05

Corner radius (r_c)

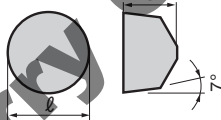
Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Dimensions (mm)			Applicable toolholders (pages)
	Appearance (Cross section)			Uncoated										l	T_1	T_2	
Medium cutting	-		RT05	●										5	6.5	2.5	TAC External Toolholders (4-65)
			RT06	●	●									6	7.7	3.0	
			RT08	●										8	10.3	4.2	

Round, without hole



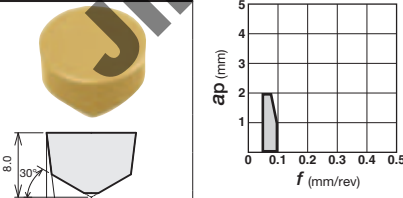
Positive
7°

RC



RCGX 09 08 00

Cutting edge length (l) Thickness (s) Corner radius (r_c)

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades										Applicable toolholders (pages)					
	Appearance (Cross section)			Coated					Ceramics										
Finishing	- (G)		RCGX090800	T9115	T9125	T9005	T9015	T9025	T9035	T5115									
			RCGX120800																

Note: Chipbreaker cross-sections are of * marked inserts.

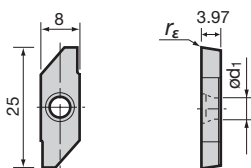
● : Stocked items
▲ : Discontinued items

Front turning Inserts



Positive

JXF



JXFR 8000 F

Hand Corner radius (r_ϵ) Sharp edge

$r_\epsilon / \phi d_1$	JXFR	8000	8010
r_ϵ		0.03	0.1
ϕd_1		4.4	4.4

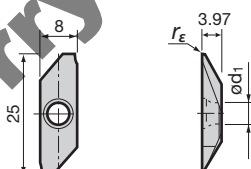
Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades				Applicable toolholders (pages)
	Appearance (Cross section)			Coated	Cermet	Uncoated		
Front turning			JXFR8000F	●	●	●		TAC External Toolholders (4-81)
			JXFR8010F	●	●	●		J-series (8-21)

Reverse turning Inserts



Positive

JXR



JXR 8000 F

Hand Corner radius (r_ϵ) Sharp edge

$r_\epsilon / \phi d_1$	JXFR	8000	8010
r_ϵ		0.03	0.1
ϕd_1		4.4	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades				Applicable toolholders (pages)
	Appearance (Cross section)			Coated	Cermet	Uncoated		
Reverse turning			JXR8000F	●	●	●		TAC External Toolholders (4-81)
			JXR8010F	●	●	●		J-series (8-21)

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

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Special

TAC Inserts, positive

2

TAC Inserts

C

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R

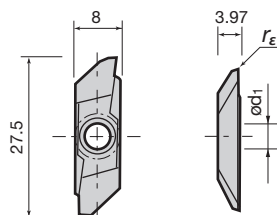
Special

Back turning Inserts



Positive


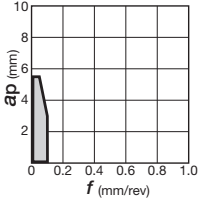
JXB



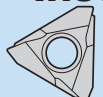
JXBR 8000 F

Hand Corner radius (r_ϵ) F : Sharp edge
□ : Honed edge

$r_\epsilon / \phi d_1$	JXB	8000	8005	8010	8015
r_ϵ		0.03	0.05	0.10	0.15
ϕd_1		4.4	4.4	4.4	4.4

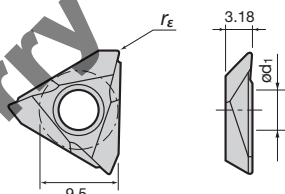
Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades				Applicable toolholders (pages)
	Appearance (Cross section)			Coated	Cermet	Uncoated		
Back turning			J740		NS530	TH10		TAC External Toolholders (4-82) J-series (8-22)
			JXBR8000F	●		●		
			JXBL8000F	●		●		
			JXBR8005F	●		●		
			JXBL8005F	●		●		
			JXBR8005	●		●		
			JXBL8005	●		●		
			JXBR8010F	●		●		
			JXBL8010F	●		●		
			JXBR8010	●		●		
			JXBL8010	●		●		
			JXBR8015F	●		●		
			JXBL8015F	●		●		
			JXBR8015	●		●		
			JXBL8015	●		●		

Backturning Inserts



Positive


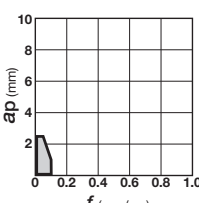
JTB



JTBR 3000 F

Hand Corner radius (r_ϵ) F : Sharp edge
□ : Honed edge

$r_\epsilon / \phi d_1$	JXB	3000	3005	3010	3015
r_ϵ		0.03	0.05	0.10	0.15
ϕd_1		4.4	4.4	4.4	4.4

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades				Applicable toolholders (pages)
	Appearance (Cross section)			Coated	Coated cermet	Cermet	Uncoated	
Back turning			J740		J530	NS530	TH10	TAC External Toolholders (4-83) J-series (8-23)
			JTBR3000F	●		●	●	
			JTBL3000F	●		●	●	
			JTBR3005F	●		●	●	
			JTBL3005F	●		●	●	
			JTBR3005	●	●	●	●	
			JTBL3005	●	▲	●	●	
			JTBR3010F	●		●	●	
			JTBL3010F	●		●	●	
			JTBR3010	●	●	●	●	
			JTBL3010	●	●	●	●	
			JTBR3015F	●		●	●	

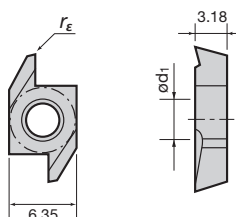
● : Stocked items
▲ : Discontinued items

Back turning Inserts



Positive

J10E




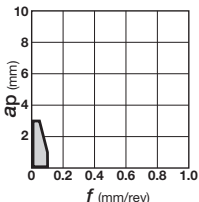
J10ER 005B F

Hand

Corner radius (r_ϵ)

F : Sharp edge
□ : Honed edge

$r_\epsilon / \phi d_1$	J10E□	005	010
r_ϵ		0.05	0.10
ϕd_1		3.0	3.0

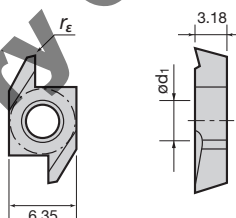
Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades				Applicable toolholders (pages)
	Appearance (Cross section)			Coated	Coated cermet	Cermet	Uncoated	
Back turning			J10ER005BF	●		●	●	TAC External Toolholders (4-84) J-series (8-24)
			J10EL005BF	●		●	●	
			J10ER005B	●	●			
			J10EL005B	●	▲			
			J10ER010BF	●		●	●	
			J10EL010BF	●		●	●	
			J10ER010B	●	●			
			J10EL010B	●	▲			

Back turning Inserts



Positive


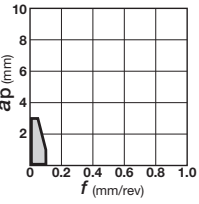
10E



10ER 100B

Hand

$r_\epsilon / \phi d_1$	10E□	100	150	300
r_ϵ		0.03	0.03	-
ϕd_1		3.0	3.0	-

Application	Chipbreaker	$f - a_p$	Insert Cat. No.	Stocked grades			Applicable toolholders (pages)
	Appearance (Cross section)				Cermet	Uncoated	
Back turning			10ER100B		●	●	TAC External Toolholders (4-84) J-series (8-24)
			10ER100BC		●		
			10EL100B			●	
			10ER150B			●	
			10ER150BC		●		
			10EL150B			●	
			10ER300		●	●	
			10EL300			●	

*10ER / L300 : Insert blank

● : Stocked items
▲ : Discontinued items

2

TAC Inserts

C

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Special