

Coated Grades for Cast Iron

AC4010K/AC4015K/AC4125K

From Ultra-high-speed Machining of Gray Cast Iron to Heavy Interrupted Machining of High-strength Ductile





New Grade for Interrupted Machining of Cast Iron

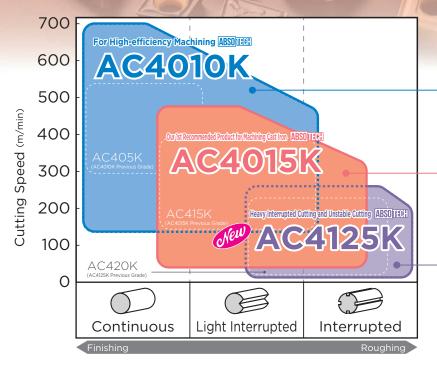
Introducing AC4125K





AC4015K /AC4125K

■ Application Range



ABSO TECH **AC4010K** Our 1st recommended grade for machining grav cast iron. Ultra-thick film coating enables ultra-high-speed machining at vc=700m/min.

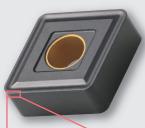
Our 1st recommended grade for machining of ductile cast iron. High-adhesion and high-strength coating enables stable and long tool life.

AC41125K

Our 1st recommended grade for interrupted machining of cast iron.

Especially effective for stable long life in roughing of parts like differential cases and carriers.

■ Features of AC4010K/AC4015K



Technologies for high-adhesion, crystal orientation control and residual stress control realise stable tool life for various types of cast iron, from grey cast iron (FC) to high-strength ductile cast iron (FCD).



Compressive stress more than twice as high as conventional stress Chipping resistance: Twice as much as conventional types

Crystal Orientation Control Alumina Layer

Crater wear resistance in high-speed machining: Twice as much as conventional types

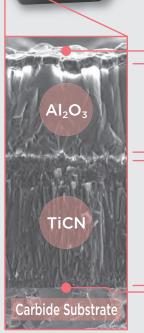


C-rich Ultra-fine TiCN Layer

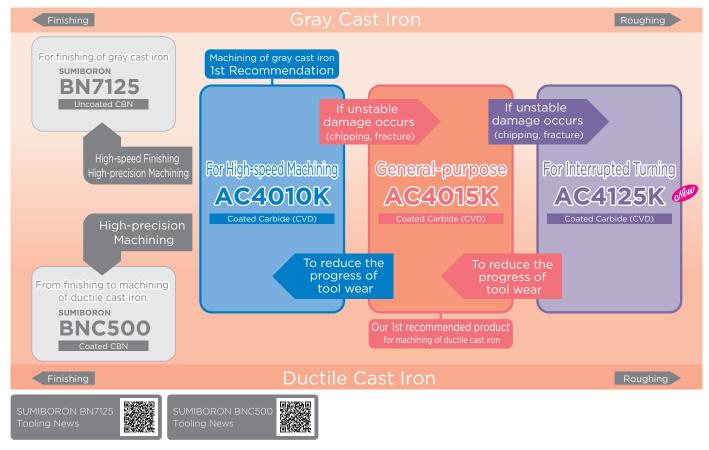
Flank wear resistance: Twice as much as conventional types

High Adhesion Technology

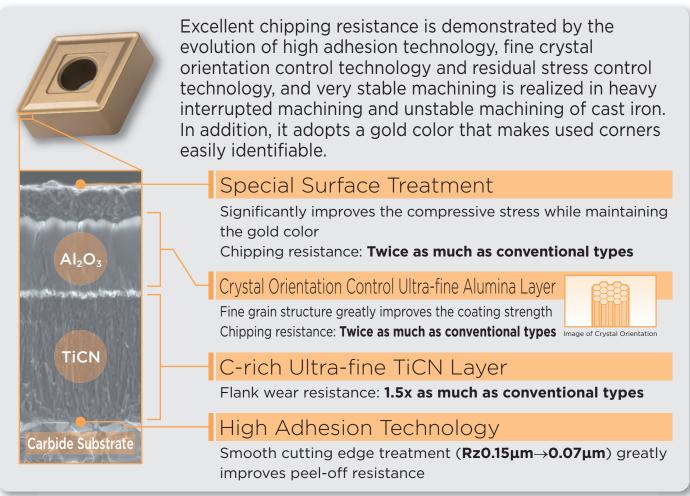
Smooth cutting edge treatment (Rz0.15µm→0.07µm) greatly improves peel-off resistance



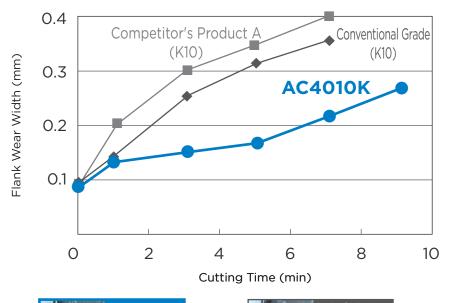
■ Applications of AC4000K Series (Example)



■ Features of AC4125K



■ Wear Resistance of AC4010K (Continuous Cutting of Gray Cast Iron)



Work Material: FC250
Continuous
Insert: CNMG120408
Cutting Conditions: vc=600m/min
f=0.4mm/rev
ap=2.0mm
Dry







AC4010K+GZ

Conventional Grade (K10)

Comp's A (K10)

■ Chipping Resistance of AC4010K/AC4015K (Interrupted Cutting of Gray Cast Iron)



Cutting for 10 minutes
O Applicable

Minor Chipping

Work Material: FC250

Interrupted

Insert : CNMG120408
Cutting Conditions: vc=400m/min

f=0.3mm/rev ap=2.0mm

Wet

AC4010K+GZ

AC4015K+GZ

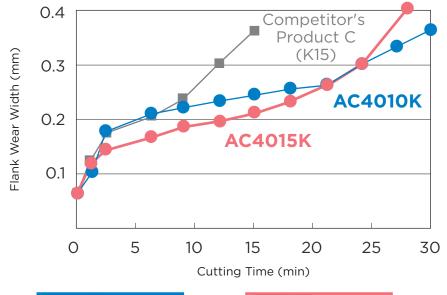




Conventional Grade (K10)

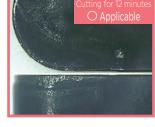
Competitor's Product B (K10)

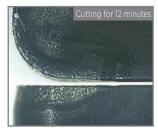
■ Wear Resistance of AC4010K/AC4015K (Continuous Cutting of Ductile Cast Iron)



Work Material: FCD700 Continuous : CNMG120408 Cutting Conditions: vc=140m/min f=0.3mm/rev ap=1.5mm Wet





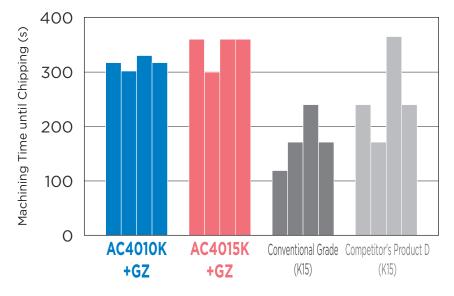


AC4010K+GZ

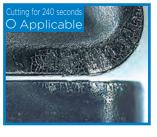
AC4015K+GZ

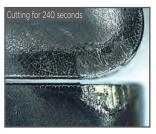
Comp's C (K15)

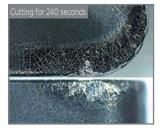
■ Chipping Resistance of AC4010K/AC4015K (Interrupted Cutting of Ductile Cast Iron)



Work Material: FCD450 Interrupted : CNMG120408 Insert Cutting Conditions: vc=450m/min f=0.3mm/rev ap=1.5mm Wet





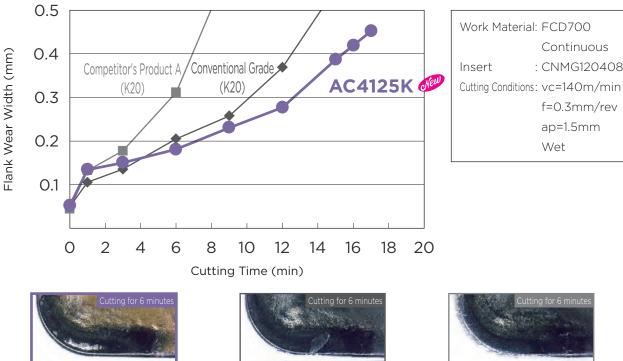


AC4010K

AC4015K

Conventional Grade (K15) Competitor's Product D (K15)

■ Wear Resistance of AC4125K (Continuous Cutting of Cast Iron)





Continuous

: CNMG120408

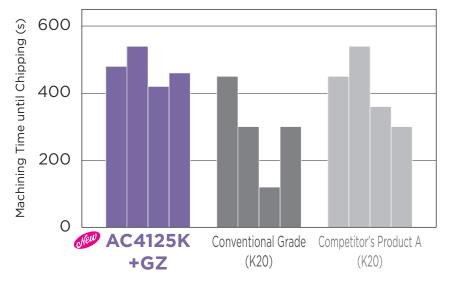
f=0.3mm/rev ap=1.5mm

Wet

AC4125K+GZ Conventional Grade (K20)

Comp's A (K20)

■ Chipping Resistance of AC4125K (Interrupted Cutting of Ductile Cast Iron)



Work Material: FCD450 Interrupted Insert : CNMG120408 Cutting Conditions: vc=450m/min f=0.3mm/rev ap=1.5mm Wet



AC4125K+GZ

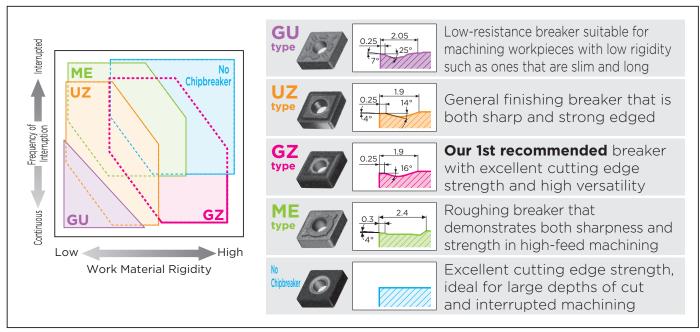


Conventional Grade (K20)



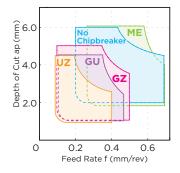
Comp's A (K20)

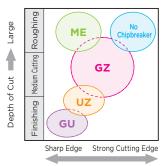
■ Chipbreaker Selection



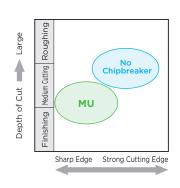
■ Chipbreaker Application Range

Negative





Positive 6.0 No Chipbreaker 90 0 0.2 0.4 0.6 Feed Rate f (mm/rev)



■ Recommended Cutting Conditions

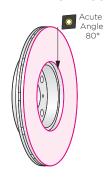
(Red text indicates 1st recommendation)

(New text indicates is: recommendation)										
Work Material	Application	Grade		Cutting Conditions	Min Optimum - Max.					
Work Material	Application	Grade	Depth of Cut ap (mm)	Feed Rate f (mm/rev)	Cutting Speed (vc) (m/min)					
	Continuous to General	AC4010K	0.5 - 2.0 - 6.0	0.10 - 0.25 - 0.40	200 - 400 - 700					
Gray Cast Iron (example: FC250)	Interrupted	AC4015K	0.5 - 2.0 - 6.0	0.10 - 0.30 - 0.50	180 - 300 - 450					
	Heavy Interrupted	AC4125K	0.5 - 2.0 - 6.0	0.10 - 0.30 - 0.60	150 - 200 - 300					
	Continuous	AC4010K	0.5 - 2.0 - 6.0	0.10 - 0.25 - 0.40	180 - 300 - 450					
Ductile Cast Iron (example: FCD450)	General to Interrupted	AC4015K	0.5 - 2.0 - 6.0	0.10 - 0.30 - 0.50	160 - 250 - 400					
	Heavy Interrupted	AC4125K	0.5 - 2.0 - 6.0	0.10 - 0.30 - 0.60	120 - 170 - 250					
High-strength Ductile	Continuous	AC4010K	0.5 - 2.0 - 6.0	0.10 - 0.25 - 0.40	160 - 250 - 400					
High-strength Ductile Cast Iron (example: FCD700)	General to Interrupted	AC4015K	0.5 - 2.0 - 6.0	0.10 - 0.30 - 0.50	140 - 200 - 350					
	Heavy Interrupted	AC4125K	0.5 - 2.0 - 6.0	0.10 - 0.30 - 0.60	80 - 150 - 220					

■ Application Examples of AC4010K / AC4015K

FC250 Brake Disc Black Skin Facing AC4010K K

AC4010K achieved 1.4x longer tool life with minimal wear





(70 pcs/C)

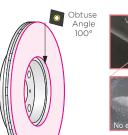




AC4010K+GZ Competitor's Product A (50 pcs/C)

AC4015K achieves 1.4x longer tool life than competitors' products Minor damage even when machining 35 pieces

FC250 Brake Disc Black Skin Facing AC4015K K







AC4015K+GZ

Competitor's Product B (35 pcs/C) (35 pcs/C)

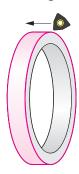
Tool Used: CNMG120408N-GZ (AC4010K) Continuous Cutting Cutting Conditions: vc=960m/min f=0.75mm/rev ap=2.0mm Wet

Tool Used: CNMG120408N-GZ (AC4015K) Continuous Cutting Cutting Conditions: vc=960m/min f=0.75mm/rev ap=2.0mm Wet

FCD800 Gear Ring External Turning

FCD600 Differential Case External Turning

Good wear resistance for machining high-strength ductile cast iron









AC4010K+ME Competitor's Product C

Excellent chipping resistance and wear suppression in heavy interrupted machining of high-strength ductile cast iron







AC4010K+GZ Competitor's Product D (45 pcs/C)

(45 pcs/C)

Tool Used: WNMG080412N-GZ (AC4010K/AC4015K) Interrupted Cutting Cutting Conditions: vc=250m/min f=0.30-0.45mm/rev ap=2.0mm

FCD500 Gear Case Facing



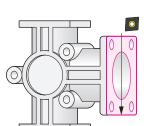
FCD450 Flywheel Facing



Combined with ME type breaker for rough cutting for 1.2x longer tool life than competitor's products

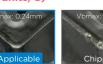
Tool Used: WNMG080412N-ME (AC4010K/AC4015K) Continuous Cutting

Cutting Conditions: vc=120m/min f=0.25mm/rev ap=1.0-3.0mm



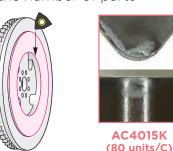


(12 units/C)



AC4010K+ME Competitor's Product E (10 units/C) (12 units/C)

AC4015K has excellent wear resistance. resulting in minimal wear even after machining double the number of parts







Competitor's Product F (40 units/C)

Tool Used: CNMG120408N-ME (AC4010K/AC4015K) Interrupted Cutting Cutting Conditions: vc=220m/min f=0.35mm/rev ap=1.5mm

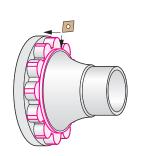
Wet

Tool Used: WNMA080408 (AC4015K) Continuous Cutting Cutting Conditions: vc=230m/min f=0.3mm/rev ap=2.0mm Wet

■ Application Examples of AC4125K

FCD600 Differential Case External Turning/Facing AC4125K K

AC4125K demonstrates excellent chipping resistance and 1.5x tool life in heavy interrupted machining of high-strength ductile cast iron.





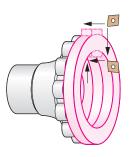
AC4125K+GU (17 pcs/C)



Competitor's Product G (11 pcs/C)

AC4125K demonstrates excellent chipping resistance in heavy interrupted machining of high-strength ductile cast iron

FCD600 Differential Case External/Internal Turning/Facing AC4125K K





AC4125K+GU (11 pcs/C)



Competitor's Product H (11 pcs/C)

Tool Used: CNMG160412N-GU (AC4125K) Interrupted Cutting Cutting Conditions: vc=160m/min f=0.20-0.45mm/rev

ap=2.5-3.0mm Wet

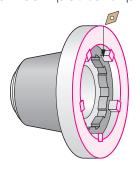
Tool Used: CNMG160412N-GU (AC4125K) Interrupted Cutting Cutting Conditions: vc=130-170m/min f=0.20-0.45mm/rev ap=2.5-3.0mm Wet

FCD500 Wheel Hub Facing

AC4125K K

FCD450 Load Sheave External Turning/Roughing AC4125K K

AC4125K achieves 1.3x longer tool life than competitors' products



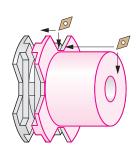


AC4125K+GZ (10 pcs/C)



Competitor's Product I (8 pcs/C)

AC4125K achieves 1.2x longer tool life than competitors' products





AC4125K (240 pcs/C)



Competitor's Product J (200 pcs/C)

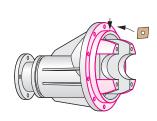
Tool Used: DNMG150608N-GZ (AC4125K) Interrupted Cutting Cutting Conditions: vc=200-300m/min f=0.15mm/rev ap=0.5mm Wet

Tool Used: DNMA150408 (AC4125K) Interrupted Cutting Cutting Conditions: vc=200m/min f=0.15mm/rev ap=1.0mm

FCD450 Carrier Case External Turning/Facing AC4125K K



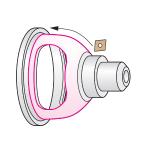
AC4125K achieves 2x longer tool life than competitors' products Minor damage even after machining 50 pieces

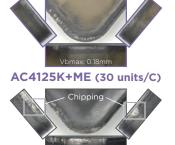




AC4125K+GZ Conventional Grade (50 units/C) (50 units/C)

AC4125K achieves 1.3x longer tool life than competitors' products Minor damage even after machining 30 pieces





Competitor's Product K (30 units/C)

Tool Used: CNMG120412N-GZ (AC4125K) Interrupted Cutting Cutting Conditions: vc=200m/min f=0.3mm/rev ap=2.5mm

Tool Used: CNMG120412N-ME (AC4125K) Interrupted Cutting Cutting Conditions: vc=150m/min f=0.2-0.3mm/rev

ap=2.0mm Wet

Negative 80° Diamond type

	Stock Dimensions (mm)												
			LUC	K		Jillelisi(ווווו) כוות	1)					
Shape	Cat. No.	AC4010K	AC4015K	AC41	Inscribed Circle	Thickness	Hole Dia.	Corner Radius					
	CNMG 090304N-GU	•	•	0 0	9.525	3.18	3.81	0.4					
	090308N-GU CNMG 090412N-GU	•		0	9.525	4.76	3.81	1.2					
	CNMG 120404N-GU	М		Ö	9.525	4.70	3.01	0.4					
0.0	120408N-GU							0.4					
	120403N-GU				12.7	4.76	5.16	1.2					
	120416N-GU	•	•	0				1.6					
	CNMG 160608N-GU	•	•	0				0.8					
	160612N-GU	•	•	0	15.875	6.35	6.35	1.2					
GU	160616N-GU	•	•	0		0.55		1.6					
	CNMG 120408N-ME	•	•	•				0.8					
	120412N-ME				12.7	4.76	5.16	1.2					
	120416N-ME	•	•	•				1.6					
	CNMG 160608N-ME			0				0.8					
000	160612N-ME			•	15.875	6.35	6.35	1.2					
	160616N-ME			0				1.6					
	CNMG 190612N-ME	•	•	0				1.2					
	190616N-ME			0	19.05	6.35	7.94	1.6					
	190624N-ME	•	•	0	25.4	0.50		2.4					
ME	CNMG 250924N-ME			0	25.4	9.52	9.12	2.4					
	CNMG 120404N-UZ 120408N-UZ	•	•		12.7	4.76	5.16	0.4					
	120412N-UZ							0.8					
	120416N-UZ		•					1.6					
	CNMG 160612N-UZ							1.2					
	160616N-UZ	•	•		15.875		6.35	1.6					
	CNMG 190612N-UZ	•	•	Ŏ				1.2					
UZ	190616N-UZ	•	•	•	19.05	6.35	7.94	1.6					
	CNMG 090408N-GZ	•	•	0	0.535	4.76	7.04	0.8					
	090412N-GZ			0	9.525	4.76	3.81	1.2					
	CNMG 120404N-GZ							0.4					
	120408N-GZ				12.7	4.76	5.16	0.8					
	120412N-GZ	•	•	•			35	1.2					
	120416N-GZ		•					1.6					
	CNMG 160608N-GZ	•	•		15 075	6.75	6 75	0.8					
	160612N-GZ 160616N-GZ	•	•	0	15.875	6.35	6.35	1.2					
	CNMG 190612N-GZ							1.0					
GZ	190616N-GZ				19.05	6.35	7.94	1.6					
JZ.	CNMA 120404	•	•					0.4					
	120408		•					0.4					
	120412	•	•	•	12.7	4.76	5.16	1.2					
	120416	•	•	•				1.6					
0	CNMA 160608			0				0.8					
	160612	•	•	•	15.875	6.35	6.35	1.2					
	160616							1.6					
	CNMA 190612				19.05		7.94	1.2					
	190616				19.03	0.55	7.94	1.6					

Negative 55° Diamond type

Negative 35 Diamond type											
		S	toc	k	[Dimensio	ons (mm)			
Shape	Cat. No.	AC4010K	AC4015K	AC4125K	Inscribed Circle	Thickness	Hole Dia.	Corner Radius			
	DNMG 110404N-GU	•	•	0				0.4			
	110408N-GU			0	9.525	4.76	3.81	0.8			
	110412N-GU			0				1.2			
	DNMG 150404N-GU			0				0.4			
	150408N-GU				12.7	4.76	5.16	0.8			
	150412N-GU			0	12.7		3.10	1.2			
	150416N-GU	•	•	0			5.16	1.6			
	DNMG 150604N-GU			0	12.7			0.4			
	150608N-GU	•	•	0		6.35		0.8			
GU	150612N-GU			0				1.2			
GU	150616N-GU	•	•	0				1.6			
	DNMG 150408N-ME 150412N-ME	H	H	C	12.7	4.76	5.16	0.8			
	150412N-ME			0	12.7	4.76	5.10	1.6			
	DNMG 150608N-ME		H	0				0.8			
	150612N-ME			0	12.7	6.35	5.16	1.2			
l ME	150616N-ME	•		0	/	0.55	3.10	1.6			
· · · ·	DNMG 150404N-UZ	•	•	•				0.4			
	150408N-UZ	•	•	•	12.7	4.76	5.16	0.8			
	150412N-UZ	•	•	0				1.2			
	DNMG 150608N-UZ	•	•	•	42.7	6.75	F 46	0.8			
UZ	150612N-UZ	•		0	12.7	6.35	5.16	1.2			

Negative 55° Diamond type

		S	toc		Dimensions (mm)					
Shape	Cat. No.	AC4010K	AC4015K	AC4125K	Inscribed Circle	Thickness	Hole Dia.	Corner Radius		
	DNMG 110408N-GZ	•			9.525	4.76	3.81	0.8		
	110412N-GZ			0	9.323	4.70	3.01	1.2		
	DNMG 150404N-GZ							0.4		
	150408N-GZ			12.7 4.7	4.76	5.16	0.8			
	150412N-GZ							1.2		
	DNMG 150608N-GZ				12.7	6.35	5.16	0.8		
GZ	150612N-GZ				12.7	0.55	5.10	1.2		
	DNMA 150404			0				0.4		
	150408				12.7	4.76	5.16	0.8		
0	150412							1.2		
	DNMA 150608				12.7	6.35	5.16	0.8		
	150612				12.7	0.33	5.10	1.2		

O Negative Square type

		S	toc	k	[Dimensio	ns (mm	1)
Shape	Cat. No.	AC4010K	AC4015K	AC41	Inscribed Circle	Thickness	Hole Dia.	Corner Radius
	SNMG 090304N-GU 090308N-GU	•	•	0	9.525	3.18	3.81	0.4
	SNMG 120404N-GU 120408N-GU 120412N-GU 120416N-GU	• • •	•	0000	12.7	4.76	5.16	0.4 0.8 1.2 1.6
GU	SNMG 150608N-GU 150612N-GU 150616N-GU	•	•	000	15.875	6.35	6.35	0.8 1.2 1.6
	120412N-ME 120412N-ME 120416N-ME	•	•	0	12.7	4.76	5.16	0.8 1.2 1.6
	SNMG 150608N-ME 150612N-ME 150616N-ME	•	•	000	15.875	6.35	6.35	0.8 1.2 1.6
	SNMG 190612N-ME 190616N-ME 190624N-ME	•	•	000	19.05	6.35	7.94	1.2 1.6 2.4
ME	SNMG 250924N-ME SNMG 120408N-UZ 120412N-UZ	•	•	0	25.4 12.7	9.52 4.76	9.12 5.16	2.4 0.8 1.2
UZ	120416N-UZ SNMG 190612N-UZ 190616N-UZ	•	•	000	19.05	6.35	7.94	1.6 1.2 1.6
	SNMG 120408N-GZ 120412N-GZ 120416N-GZ	•	•	•	12.7	4.76	5.16	0.8 1.2 1.6
	SNMG 150612N-GZ 150616N-GZ	•	•	0	15.875	6.35	6.35	1.2 1.6
GZ	SNMG 190612N-GZ 190616N-GZ	•	•	0	19.05	6.35	7.94	1.2 1.6
	SNMA 120404 120408 120412 120416 120420	•	• • • •	0	12.7	4.76	5.16	0.4 0.8 1.2 1.6 2.0
	SNMA 150612 150616	•	•	0	15.875	6.35	6.35	1.2 1.6
	SNMA 190612 190616	•	•	•	19.05	6.35	7.94	1.2 1.6

A Negative Triangular type

Negative irialigular type										
		S	toc	k	[Dimensio	ons (mm	1)		
Shape	Cat. No.	AC4010K	AC4015K	AC4125K	Inscribed Circle	Thickness	Hole Dia.	Corner Radius		
	TNMG 160404N-GU			0				0.4		
	160408N-GU				9.525	4.76	3.81	0.8		
0000	160412N-GU			0	9.525	4.70	3.01	1.2		
U	160416N-GU			0				1.6		
	TNMG 220404N-GU			0				0.4		
	220408N-GU			0	12.7	4.76	5.16	0.8		
GU	220412N-GU			0				1.2		
	TNMG 160408N-ME				9.525	4.76	3.81	0.8		
1000	160412N-ME	•	•	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1.2		
	TNMG 220408N-ME			0				0.8		
	220412N-ME	•	•	0	12.7	4.76	5.16	1.2		
ME	220416N-ME	•		0				1.6		
	TNMG 160404N-UZ	•	•		9.525	4.76	3.81	0.4		
	160408N-UZ							0.8		
N 63 11	160412N-UZ	•	•					1.2		
	160416N-UZ			0				1.6		
	160420N-UZ	•	•	0				2.0		
	TNMG 220408N-UZ 220412N-UZ	•	•	0	12.7	4.76	5.16	0.8		
UZ	220412N-UZ			0	12.7	4.76	5.10	1.6		
02	TNMG 160404N-GZ							0.4		
	160408N-GZ			ŏ	9.525	4.76	3.81	0.8		
0	160412N-GZ	•			7.525	4.70	5.01	1.2		
	TNMG 220408N-GZ	•	•					0.8		
-	220412N-GZ	•	•	O	12.7	4.76	5.16	1.2		
GZ	220416N-GZ	•	•	0				1.6		
	TNMA 160404	•	•					0.4		
	160408							0.8		
	160412	•	•		9.525	4.76	3.81	1.2		
9/	160416			0				1.6		
	160420	•	•	0				2.0		
	TNMA 220408	•						0.8		
	220412	•		0	12.7	4.76	5.16	1.2		
	220416			0				1.6		

Negative Trigon type

		S	toc	k	[Dimensio	ons (mm	1)
Shape	Cat. No.	AC4010K	AC4015K	AC4125K	Inscribed Circle	Thickness	Hole Dia.	Corner Radius
	WNMG 060404N-GU							0.4
1	060408N-GU			0	9.525	4.76	3.81	0.8
10 01	060412N-GU	•		0				1.2
	WNMG 080404N-GU			0				0.4
	080408N-GU	•	•	0	12.7	4.76	5.16	0.8
GU	080412N-GU							1.2
	WNMG 060408N-ME	•	•	0	9.525	4.76	3.81	0.8
146.00	060412N-ME	Q	Q	0				1.2
	WNMG 080408N-ME	•	•	•	12.7			0.8
ME	080412N-ME				12.7	4.76	5.16	1.2
ME	080416N-ME WNMG 080404N-UZ	•						1.6 0.4
	080404N-UZ		H	0	12.7	4.76	5.16	0.4
UZ	080408N-UZ		H		12.7	4.76	5.10	1.2
0 02	WNMG 060408N-GZ			0				0.8
	060412N-GZ			0	9.525	4.76	3.81	1.2
(3)	WNMG 080404N-GZ			•				0.4
	080408N-GZ	•	•	•	12.7	4.76	5.16	0.8
GZ	080412N-GZ	•	•	•				1.2
	WNMA 080408	•	•	•				0.8
(0)	080412	•	•	•	12.7	4.76	5.16	1.2
	080416							1.6

	Negative 35° Diamond type										
		S	toc		Dimensions (mm)						
Shape	Cat. No.	AC4010K	AC4015K	AC4125K	Inscribed Circle	Thickness	Hole Dia.	Corner Radius			
	VNMG 160404N-GU			0				0.4			
- 0	160408N-GU				9.525	4.76	3.81	0.8			
GU	160412N-GU	•		0				1.2			
	VNMG 160404N-UZ							0.4			
	160408N-UZ				9.525	4.76	3.81	0.8			
UZ	160412N-UZ							1.2			
	VNMG 160404N-GZ							0.4			
$-\omega$	160408N-GZ				9.525	4.76	3.81	0.8			
GZ	160412N-GZ							1.2			
	VNMA 160404			0				0.4			
-	160408				9.525	4.76	3.81	0.8			
	160412			0				1.2			

Negative Square type (Without Hole)

			toc	k	Dimensions (mm)					
Shape	Cat. No.	AC4010K	AC4015K	AC4125K	Inscribed Circle	Thickness		Corner Radius		
	SNMN 120408	•	•	0				0.8		
	120412				12.7	4.76	-	1.2		
	120416			0				1.6		

ackslash Negative Triangular type (Without Hole)

		S	toc	k	Dimensions (mm)					
Shape	Cat. No.	AC4010K	AC4015K	AC4125K	Inscribed Circle	Thickness		Corner Radius		
6 3	TNMN 160408							0.8		
	160412			0	9.525	4.76	_	1.2		
	160416			0				1.6		

Positive 80° Diamond type

			S	toc	k	Di	mensio	ons (m	m)
Shape	Relief Angle	Cat. No.	AC4010K	AC4015K	AC4125K	Inscribed Circle	Thickness	Hole Dia.	Corner Radius
SU	7°	CCMT 09T304N-SU @ 09T308N-SU @		•		9.525	3.97	4.4	0.4
MU	7°	CCMT 09T304N-MU 09T308N-MU	•	•	•	9.525	3.97	4.4	0.4 0.8
		CCMW 060204	•	•	0	6.35	2.38	2.8	0.4
	7°	CCMW 09T304 09T308	•	•	•	9.525	3.97	4.4	0.4 0.8
		CPMT 080204N-MU 080208N-MU	•	•	•	7.94	2.38	3.4	0.4
MU	11°	CPMT 090304N-MU 090308N-MU	•	•	•	9.525	3.18	4.4	0.4
110		CPMW 080204	•	•	0	7.94	2.38	3.4	0.4
	11°	080208	•	•	0	7.54	2.30	5.4	0.8
		CPMW 090304 090308	•	•	•	9.525	3.18	4.4	0.4

A Positive Triangular type

<u> </u>	SILIVE	riangular type	_						
			S	toc	k Ofer	Di	mensio	ons (m	m)
Shape	Relief Angle	Cat. No.	AC4010K	AC4015K	×	Inscribed Circle	Thickness	Hole Dia.	Corne
		TCMW 110204 110208	• •	•	0	6.35	2.38	2.8	0.4
8	7°	TCMW 16T304 16T308	•	•	•	9.525	3.97	4.3	0.4
TU UZ		16T312 TPMT 080204N-LU @	•	•	0	4.76	2.38	2.4	1.2 0.4
LU	11°	1FPH 000204N-L0				7.7.0	2.30		0.4
LB	11°	TPMT 090204N-LB 🜮		•		5.56	2.38	2.8	0.4
Su	11°	TPMT 080204N-SU @P		•		4.76 6.35	2.38 3.18	2.4 3.4	0.4
SU	11°	TPMT 160404N-SU @ 160408N-SU @		•		9.525	4.76	4.4	0.4
MU	11°	TPMT 110304N-MU 110308N-MU	•	•	•	6.35	3.18	3.4	0.4 0.8
MU	11°	TPMT 160404N-MU 160408N-MU	•	•	•	9.525	4.76	4.4	0.4
₩ 1410		TPGW 080204 69 080208		•		4.76	2.38	2.4	0.4
0	440	TPGW 090204 @ 090208 @ 090208		•		5.56	2.38	2.8	0.4
	11°	TPGW 110304 @ 110308		•		6.35	3.18	3.4	0.4
		TPGW 160404 @ 160408 @		•		9.525	4.76	4.4	0.4

Positive 55° Diamond type

	7°	DCMT 070204N-SU @ 070208N-SU @	•		6.35	2.38	2.8	0.4
SU			 					
	7°	DCMT 11T304N-MU			9.525	3.97	4.4	0.4
		11T308N-MU			9.525	5.97	4.4	0.8
MU								
	7°	DCMW 070204		0	. 75	2.38	2.8	0.4
		070208		0	6.35	2.30	2.0	0.8
		DCMW 11T304			9.525	3.97	4.4	0.4
		11T308		•		5.97	4.4	0.8

Positive Round type

		RCMX 1003M0N-RP		0	10.0	3.18	3.6	
	7°	RCMX 1204M0N-RP			12.0	4.76	4.2	-
RP		RCMX 1606M0N-RP		0	16.0	6.35	5.2	_

> Positive 35° Diamond type

	5°	VBMW 160404	•	0	9.525	4.76	4.4	0.4	
		160408						0.8	

Positive Square type

		SCMT 09T308N-MU		9.525	3.97	4.4	0.8
	7°	SCMT 120408N-MU		12.7	4.76	5.5	0.8
MU							
		SCMW 09T308		9.525	3.97	4.4	0.8
	7°	SCMW 120408		12.7	4.76	5.5	0.8
		120412		12.7	4.70	5.5	1.2
		SPMT 090304N-LB 🐠		9.525	3.18	3.4	0.4
	11°	090308N-LB 🐠		9.323	3.10	3.4	0.8
LB							
	11°	SPMT 070208N-SS 🐠		7.94	2.38	3.4	0.8
SS							
0000		SPMT 070308N-US 🐠	•	7.94	3.18	3.4	0.8
	11°		 				
US							
	11°	SPGW 070304 🐠	•	7.94	3.18	3.4	0.4
		070308		7.94	3.10	5.4	0.8
	11	SPGW 090304 🐠		 9.525	3.18	3.4	0.4
		090308		9.025	3.10	5.4	0.8

Positive Square type (Without Hole)

		SPMN 090304	•	0	9.525	3.18	-	0.4	
		090308						0.8	
-		11°	SPMN 120304	•	•	12.7		-	0.4
-			120308				3.18		0.8
-			120312		0				1.2

A Positive Triangular type (Without Hole)

	11°	TPMN 110304			6.35	3.18	-	0.4
		110308				3.10		0.8
		TPMN 160304			9.525		_	0.4
		160308	•	•		3.18		0.8
		160312		0				1.2

🗨 mark: Standard stocked item 🔎 mark: Standard stocked item (new product/expanded item) 🔘 mark: Planned stock (Feb 2024) 🛮 Blank: Made-to-order item

< SAFETY NOTES >-

- Very hot or lengthy chips may be discharged while the machine is in operation. Therefore, machine guards, safety goggles or other protective covers must be used. Fire safety precautions must also be considered.
 Please handle with care as this product has sharp edges.
 Improper cutting conditions or mis-handling of the tool may result in breakages or projectiles. Therefore, please use that a fire extinguisher is use the tool within its recommended conditions.

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