

Cermet and Coated Cermet

Cermet “T110A”, “T1200A” and Coated Cermet “T2000Z”, “T3000Z”

■ CERMET SERIES FEATURES

Compared to carbide...

- ① Excellent anti-wear and anti-cratering properties
- ② Low affinity to steel; resists adhesion
- ③ Economical

Compared to coated carbide inserts...

- ① A large selection of ground, precision inserts for clean, smooth cuts
- ② Ideal for finishing cuts – light feed and depths of cut
- ③ Economical

■ GRADE FEATURES

T110A: Excellent wear resistance and toughness

T1200A: General purpose cermet grade which balances wear resistance with toughness

T2000Z: ZX coated cermet for finishing to semi-finishing of steels and stainless steels

T3000Z: Medium to finish interrupted machining of steel with ZX coating



	T110A	T1200A	T2000Z	T3000Z
Hardness (Hv)	1,680	1,680	1,680	1,680
T.R.S. (kg/mm ²)	165	165	165	165

■ APPLICATIONS

	High-Speed	C8	C7	C6	C5A-C5
		Finishing		General	Rough
Steel Turning		T110A			
			T1200A		
			T2000Z		
			T3000Z		
	High-Speed	C4	C3	C2	C1
		Finishing	General		Rough
Cast Iron Turning		T110A			
		T1200A			
			T2000Z		

T110A



High speed finishing of steels and cast irons

T1200A



General purpose to finish turning of steels and stainless steels

T2000Z



General purpose to finishing of steels and stainless steels with ZX coating

T3000Z



Medium to finish interrupted machining of steel with ZX coating

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

Toolholders

Swiss Toolholders

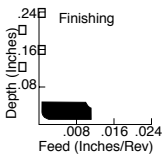
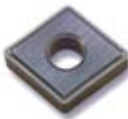
Boring Bars

Technical Info

ALMT

Indexable Inserts

Indexable Inserts

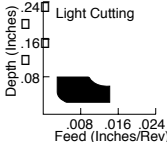
General Info		80° DIAMOND INSERTS																	
Negative Inserts	CNMG		Chip Breaker	Coated	Cermet			Uncoated			Dimensions (Inches)				Insert Hole				
	EFA				T2000Z	T3000Z	T1200A					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.				
	Positive Inserts	Sumitomo Cat. No.		New ISO Cat. No.															
	CNMG 430.5 EFA		CNMG 120402N-FA			•	★	•							1/2	3/16	1/128	.2031	
	CNMG 431 EFA		CNMG 120404N-FA			•	★	•									1/64		
	CNMG 432 EFA		CNMG 120408N-FA			•	★	•									1/32		
																	3/64		
Ace-Fix Inserts	CNMG		Chip Breaker	Coated			Cermet		Uncoated		Dimensions (Inches)				Insert Hole				
	EFL						T2000Z	T3000Z						Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
	Threading, Grooving, & Cut-Off Inserts	Sumitomo Cat. No.		New ISO Cat. No.		AC2000													
	CNMG 431 EFL		CNMG 120404N-FL		★					★	★				1/2	3/16	1/64	.2031	
	CNMG 432 EFL		CNMG 120408N-FL		★					★	★						1/32		
Ceramic Inserts	CNMG		Chip Breaker	Coated	Cermet			Uncoated			Dimensions (Inches)				Insert Hole				
	EFP					T1200A	T130Z						Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
	PCBN & PCD Inserts	Sumitomo Cat. No.		New ISO Cat. No.															
	CNMG 430.5 EFP		CNMG 120402N-FP					•	•						1/2	3/16	1/128	.2031	
	CNMG 431 EFP		CNMG 120404N-FP					•	•								1/64		
	CNMG 432 EFP		CNMG 120408N-FP					•									1/32		
Toolholders	CNMG		Chip Breaker	Coated			Cermet			Dimensions (Inches)				Insert Hole					
	ESP						T1200A						Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
	Swiss Toolholders	Sumitomo Cat. No.		New ISO Cat. No.							T1200A								
	CNMG 431 ESP		CNMG 120404N-SP							•					1/2	3/16	1/64	.2031	
	CNMG 432 ESP		CNMG 120408N-SP							•							1/32		
	CNMG 433 ESP		CNMG 120412N-SP														3/64		
Boring Bars																			
Technical Info																			

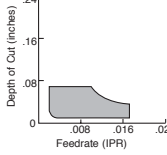
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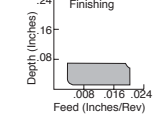
★ = Worldwide Warehouse item

▲ = USA limited availability item

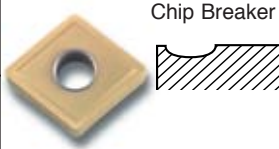
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CNGG CNMG		 	Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
ESU												Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.														Application
CNGG 430 ESU		CNGG 120401N-SU														
CNGG 430.5 ESU		CNGG 120402N-SU														
CNGG 431 ESU		CNGG 120404N-SU														
CNGG 432 ESU		CNGG 120408N-SU														
CNMG 321 ESU		CNMG 090304N-SU		★												
CNMG 322 ESU		CNMG 090308N-SU		★												
CNMG 331 ESU		CNMG 090404N-SU		★												
CNMG 332 ESU		CNMG 090408N-SU		★												
CNMG 431 ESU		CNMG 120404N-SU			•	•	•	•	•	•	•	•	•	•		
CNMG 432 ESU		CNMG 120408N-SU			•	•	•	•	•	•	•	•	•	•		
CNMG 433 ESU		CNMG 120412N-SU			★											

CNMG		 	Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
ELU																
Sumitomo Cat. No.		New ISO Cat. No.													Application	
CNMG 321 ELU		CNMG 090304N-LU		★	★	★	★									
CNMG 322 ELU		CNMG 090308N-LU		★	★	★	★									
CNMG 431 ELU		CNMG 120404N-LU		•	★	•	★	★								
CNMG 432 ELU		CNMG 120408N-LU		•	★	•	★	★								
CNMG 433 ELU		CNMG 120412N-LU		•	★	•	★	★								

CNMG		 	Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
ELUW																
Sumitomo Cat. No.		New ISO Cat. No.													Application	
CNMG 431 ELUW		CNMG 120404N-LUW		•	•		•	★								
CNMG 432 ELUW		CNMG 120408N-LUW		•	•		•	★								
CNMG 433 ELUW		CNMG 120412N-LUW		•	•		•	★								

Indexable Inserts

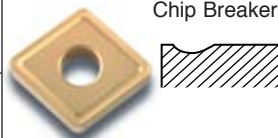
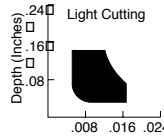
General Info	CNMG		Chip Breaker	Cermet		Uncoated				Dimensions (Inches)				Insert Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

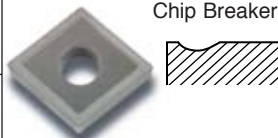
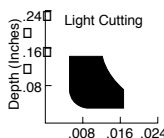
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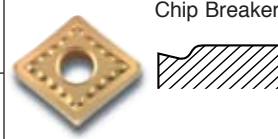
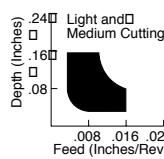


For a complete description of all Sumitomo grades see pages 6-7.

Indexable Inserts

CNMG		Coated								Uncoated				Dimensions (Inches)				Insert Hole	
																			
ENJ			AC2000							ST30E					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
Sumitomo Cat. No.		New ISO Cat. No.																	
CNMG 431 ENJ	CNMG 120404N-UJ		•							▲					1/2	3/16	1/64	.2031	
CNMG 432 ENJ	CNMG 120408N-UJ		•														1/32		
CNMG 433 ENJ	CNMG 120412N-UJ																3/64		
CNMG 434 ENJ	CNMG 120416N-UJ		▲														1/16		
CNMG 542 ENJ	CNMG 160608N-UJ														5/8	1/4	1/32	.250	
CNMG 543 ENJ	CNMG 160612N-UJ		▲														3/64		
CNMG 544 ENJ	CNMG 160616N-UJ		▲														1/16		
CNMG 642 ENJ	CNMG 190608N-UJ																1/32		
CNMG 643 ENJ	CNMG 190612N-UJ		•												3/4	1/4	3/64	.3126	
CNMG 644 ENJ	CNMG 190616N-UJ																1/16		
CNMG 646 ENJ	CNMG 190624N-UJ		•														3/32		

CNMG			Coated								Uncoated				Dimensions (Inches)				Insert Hole	
FNJ																				
Sumitomo Cat. No.			New ISO Cat. No.													Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
CNMG 431 FNJ		CNMG 120404N-UJ										•	G10E		1/2	3/16	1/64	.2031		

CNMG				Coated						Uncoated				Dimensions (Inches)				Insert Hole		
EUP																				
Sumitomo Cat. No.		New ISO Cat. No.		AC2000	AC3000	AC720	EH10Z	EH20Z	AC304		G10E	EH10	EH510			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
CNMG 431 EUP		CNMG 120404N-UP		•	•		•	•			•					1/2	3/16	1/64	.2031	
CNMG 432 EUP		CNMG 120408N-UP		•	•	•	•	•			•	★						1/32		
CNMG 433 EUP		CNMG 120412N-UP		★	•	▲	▲		•			▲				3/64				
CNMG 542 EUP		CNMG 160608N-UP		•	•											1/32				
CNMG 543 EUP		CNMG 160612N-UP		•	•							▲				5/8	1/4	3/64	.250	
CNMG 643 EUP		CNMG 190612N-UP		•	•	▲		•								3/4	1/4	3/64	.3126	

CNMG			Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole			
																		
Sumitomo Cat. No.			New ISO Cat. No.		AC304	EH510Z	EH520Z			EH510	EH520			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
CNMG 431 EEX		CNMG 120404N-EX			•	•	•				•	•		1/2	3/16	1/64	.2031	
CNMG 432 EEX		CNMG 120408N-EX			•	•	•				•	•				1/32		
CNMG 433 EEX		CNMG 120412N-EX			•	•	•			★						3/64		

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

Toolholders

Swiss Toolholders

Boring Bars

Technical Info

ALMT

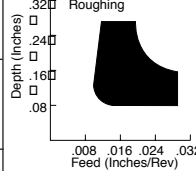
Indexable Inserts

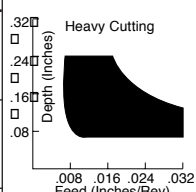
Indexable Inserts

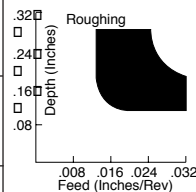
When O.D. turning, a steel toolholder's overhang should not exceed 1.5X the diameter of its shank.

CNMG			Coated				Uncoated				Dimensions (Inches)				Insert Hole
FNZ							G10E				Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
Sumitomo Cat. No.		New ISO Cat. No.									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	 Medium Cutting □ and Roughing Depth (Inches) 24 16 16 8 08 .008 .016 .024 Feed (Inches/Rev)
CNMG 432 FNZ	CNMG 120408N-UZ										1/2	3/16	1/32	.2031	
CNMG 433 FNZ	CNMG 120412N-UZ												3/64		
CNMG 642 FNZ	CNMG 190608N-UZ												1/32		
CNMG 643 FNZ	CNMG 190612N-UZ										3/4	1/4	3/64	.3126	

Indexable Inserts

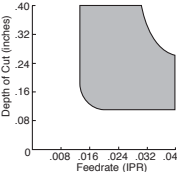
General Info	CNMG			Chip Breaker		Coated								Uncoated		Dimensions (Inches)				Insert Hole				
	EMU	Sumitomo Cat. No.		New ISO Cat. No.	AC1000	AC2000	AC3000	AC105G	AC300G	AC500G	AC700G	AC304	EH10Z	EH20Z	EH510Z	EH520Z	EH510	EH520	Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application
Negative Inserts	CNMG 432 EMU	CNMG 120408N-MU	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1/2	3/16	1/32	.2031		
CNMG 433 EMU	CNMG 120412N-MU	▲	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1/2	3/16	3/64				
CNMG 434 EMU	CNMG 120416N-MU	▲	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1/2	3/16	1/16				
CNMG 542 EMU	CNMG 160608N-MU	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5/8	1/4	1/32				
CNMG 543 EMU	CNMG 160612N-MU	▲	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5/8	1/4	3/64				
Positive Inserts	CNMG 544 EMU	CNMG 160616N-MU	▲	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5/8	1/4	1/16	.250		
	CNMG 642 EMU	CNMG 190608N-MU	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3/4	1/4	1/32				
	CNMG 643 EMU	CNMG 190612N-MU	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3/4	1/4	3/64				
Ace-Fix Inserts	CNMG 644 EMU	CNMG 190616N-MU	▲	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3/4	1/4	1/16	.3126		

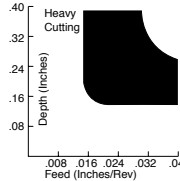
Threading, Grooving, & Cut-Off Inserts	CNMG												Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.				
	EMX																Application			
	Sumitomo Cat. No.		New ISO Cat. No.																	
Ceramic Inserts	CNMG 432 EMX		CNMG 120408N-MX				•			•										
	CNMG 433 EMX		CNMG 120412N-MX				•			•					1/2	3/16	1/32	.2031		
	CNMG 434 EMX		CNMG 120416N-MX				•			•							1/16			
	CNMG 542 EMX		CNMG 160608N-MX				•			•							1/32			
PCBN & PCD Inserts	CNMG 543 EMX		CNMG 160612N-MX				•			•					5/8	1/4	3/64	.250		
	CNMG 544 EMX		CNMG 160616N-MX				•			•							1/16			
	CNMG 643 EMX		CNMG 190612N-MX				•			•							3/64			
	CNMG 644 EMX		CNMG 190616N-MX				•			•					3/4	1/4	1/16	.3126		

Toolholders	CNMM	 Chip Breaker	Coated				Uncoated				Dimensions (Inches)				Insert Hole		
	ENP										Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
Swiss Toolholders	Sumitomo Cat. No.		New ISO Cat. No.		AC2000	AC3000	AC720									Application	
	CNMM 432 ENP		CNMM 120408N-MP		★	•	▲							1/2	3/16	1/32	
	CNMM 433 ENP		CNMM 120412N-MP		★	★								1/2	3/16	3/64	
	CNMM 434 ENP		CNMM 120416N-MP		★	★									1/2	1/16	
	CNMM 542 ENP		CNMM 160608N-MP		★	★								5/8	1/4	1/32	
	CNMM 543 ENP		CNMM 160612N-MP		★	★								5/8	1/4	3/64	
Boring Bars	CNMM 544 ENP		CNMM 160616N-MP		★		▲									1/16	
	CNMM 642 ENP		CNMM 190608N-MP		★	★										1/32	
	CNMM 643 ENP		CNMM 190612N-MP		★	•										3/64	
	CNMM 644 ENP		CNMM 190616N-MP		★	★								3/4	1/4	1/16	
	CNMM 646 ENP		CNMM 190624N-MP		★	★										3/32	

- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

Indexable Inserts

CNMM			Chip Breaker		Coated								Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
EHG				AC2000	AC3000	AC700G											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application
Sumitomo Cat. No.				New ISO Cat. No.																		
CNMM 432 EHG		CNMM 120408N-HG	★	★	★												1/2	3/16	1/32	.2031		
CNMM 433 EHG		CNMM 120412N-HG	★	★															3/64	.2031		
CNMM 543 EHG		CNMM 160612N-HG	★	★													5/8	1/4	3/64	.250		
CNMM 544 EHG		CNMM 160616N-HG	★	★															1/16	.250		
CNMM 643 EHG		CNMM 190612N-HG	★																3/64	.3126		
CNMM 644 EHG		CNMM 190616N-HG	★	★	★												3/4	1/4	1/16	.3126		
CNMM 646 EHG		CNMM 190624N-HG	★	★															3/32			

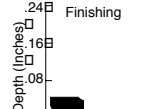
CNMM			Chip Breaker	Coated						Uncoated				Dimensions (Inches)				Insert Hole		
EHP				AC2000 AC3000			AC720					G10E				Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.			New ISO Cat. No.																	Application
CNMM 432 EHP		CNMM 120408N-HP	•	•							▲				1/2	3/16	1/32	2031		
CNMM 433 EHP		CNMM 120412N-HP	★								▲				1/2	3/16	3/64	2031		
CNMM 434 EHP		CNMM 120416N-HP															1/16	2031		
CNMM 542 EHP		CNMM 160608N-HP		★											5/8	1/4	1/32	.250		
CNMM 543 EHP		CNMM 160612N-HP		★											5/8	1/4	3/64	.250		
CNMM 544 EHP		CNMM 160616N-HP		★											5/8	1/4	1/16	.250		
CNMM 642 EHP		CNMM 190608N-HP		★											3/4	1/4	1/32	.3126		
CNMM 643 EHP		CNMM 190612N-HP		•		▲									3/4	1/4	3/64	.3126		
CNMM 644 EHP		CNMM 190616N-HP	★	★											3/4	1/4	1/16	.3126		
CNMM 646 EHP		CNMM 190624N-HP		★											3/4	1/4	3/32	.3126		

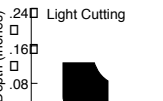
CNMG			Coated								Uncoated				Dimensions (Inches)				Insert Hole	
FNU																				
Sumitomo Cat. No.		New ISO Cat. No.									G10E			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application		
CNMG 432 FNU		CNMG 120408N-NU									•			1/2	3/16	1/32	.2031			

Indexable Inserts

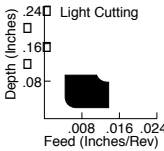
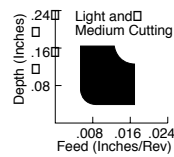
Indexable Inserts

■ 55° DIAMOND INSERTS

DNMG		Chip Breaker 	Coated								Cermet				Dimensions (Inches)				Insert Hole			
EFP															Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.				
Sumitomo Cat. No.			New ISO Cat. No.																		Application	
DNMG 431 EFP		DNMG 150404N-FP										T1200A					1/2	3/16	1/64	.2031	Depth (Inches)  Feed (Inches/Rev)	
DNMG 432 EFP		DNMG 150408N-FP																	1/32			

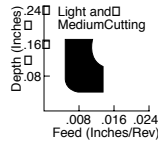
DNMG		  Chip Breaker	Coated				Cermet				Dimensions (Inches)				Insert Hole		
ENK			 Chip Breaker										Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.																	New ISO Cat. No.
DNMG 431 ENK		DNMG 150404N-SK		•	▲	•	•					1/2	3/16	1/64	2031	 Depth (Inches) Feed (Inches/Rev)	
DNMG 432 ENK		DNMG 150408N-SK		•	▲		▲							1/32			
DNMG 441 ENK		DNMG 150604N-SK		•	▲									1/64			
DNMG 442 ENK		DNMG 150608N-SK		•	▲									1/32			

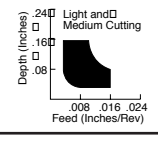
Indexable Inserts

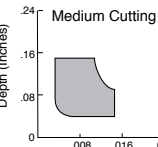
General Info	DNMG		Chip Breaker	Coated						Cermet		Uncoated	Dimensions (Inches)				Insert Hole						
Negative Inserts	ESX			AC1000	AC2000	AC3000	AC700G			T2000Z	T3000Z	T1200A			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.					
	Sumitomo Cat. No.		New ISO Cat. No.																Application				
Positive Inserts	DNMG 431 ESX		DNMG 150404N-SX	▲	•	•				•	★	•			1/2	3/16	1/64	.2031					
	DNMG 432 ESX		DNMG 150408N-SX	▲	•	•				•	★	•					1/32						
	DNMG 433 ESX		DNMG 150412N-SX	▲	•	•											3/64						
	DNMG 441 ESX		DNMG 150604N-SX			•				★	★						1/64						
	DNMG 442 ESX		DNMG 150608N-SX			•				★	★						1/32						
	DNMG 443 ESX		DNMG 150612N-SX			•											3/64						
Ace-Fix Inserts	DNMG		Chip Breaker	Coated						Uncoated		Dimensions (Inches)				Insert Hole							
Threading, Grooving, & Cut-Off Inserts	EUU			AC2000											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.					
	Sumitomo Cat. No.		New ISO Cat. No.																Application				
Ceramic Inserts	DNMG 331 EUU		DNMG 110404N-UU			•									3/8	3/16	1/64	.150					
	DNMG 332 EUU		DNMG 110408N-UU			•											1/32						
	DNMG 431 EUU		DNMG 150404N-UU			•											1/64						
	DNMG 432 EUU		DNMG 150408N-UU			•											1/32						
	DNMG 433 EUU		DNMG 150412N-UU			•											3/64						
	DNMG 441 EUU		DNMG 150604N-UU			•											1/64						
PCBN & PCD Inserts	DNMG 442 EUU		DNMG 150608N-UU			•									1/2	1/4	1/32	.2031					
	DNMG 443 EUU		DNMG 150612N-UU			•											3/64						
	DNJG		Chip Breaker	Coated	Cermet	Uncoated		Dimensions (Inches)				Insert Hole											
	UM			T1200A													Inscribed Circle			Thickness	Nose Radius	Insert Hole Dia.	
	Sumitomo Cat. No.		New ISO Cat. No.																				Application
	Toolholders	DNJG 431 R		DNGG 150404R-UM			•													1/2	3/16	1/64	.2031
DNJG 431 L		DNGG 150404L-UM			•									1/64									
DNJG 432 R		DNGG 150408R-UM			•									1/32									
DNJG 432 L		DNGG 150408L-UM			•									1/32									
DNJG 433 R		DNGG 150412R-UM												3/64									
DNJG 433 L		DNGG 150412L-UM												3/64									
Swiss Toolholders																							
Boring Bars																							
		• = USA stocked item ★ = Worldwide Warehouse item ▲ = USA limited availability item																					

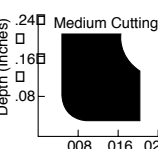
- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

Indexable Inserts

DNMG			Coated										Uncoated				Dimensions (Inches)				Insert Hole																			
ENJ				AC2000													Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application																		
Sumitomo Cat. No.		New ISO Cat. No.																																						
DNMG 431 ENJ		DNMG 150404N-UJ																					•													1/64	.2031		Light and Medium Cutting	
DNMG 432 ENJ		DNMG 150408N-UJ																					•													1/32				
DNMG 433 ENJ		DNMG 150412N-UJ																																		3/64				
DNMG 441 ENJ		DNMG 150604N-UJ																					▲													1/64				
DNMG 442 ENJ		DNMG 150608N-UJ																					▲													1/32				
DNMG 443 ENJ		DNMG 150612N-UJ															3/64																							
DNMG 444 ENJ		DNMG 150616N-UJ															1/16																							

DNMG			Coated										Uncoated				Dimensions (Inches)				Insert Hole																			
EUP				AC2000	AC3000	AC720	EH10Z	EH20Z	EH510Z	AC304		G10E	EH10	EH510			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application																		
Sumitomo Cat. No.		New ISO Cat. No.																																						
DNMG 431 EUP		DNMG 150404N-UP																					•	•	▲	•	•	•		▲		★				1/64	.2031		Light and Medium Cutting	
DNMG 432 EUP		DNMG 150408N-UP																					•	•	▲	•	•	★	•			★				1/32				
DNMG 433 EUP		DNMG 150412N-UP																					•	•	•	▲	•	•			▲					3/64				
																							•	•																

DNMG			Coated										Cermet	Uncoated	Dimensions (Inches)				Insert Hole																						
EEX							AC304	EH510Z	EH520Z					EH510	EH520			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application																		
Sumitomo Cat. No.		New ISO Cat. No.																																							
DNMG 431 EEX		DNMG 150404N-EX																							•	•	•	•					•	•			1/64	.2031		Medium Cutting	
DNMG 432 EEX		DNMG 150408N-EX																							•	•	•	•					•	•			1/32				
DNMG 433 EEX		DNMG 150412N-EX																							•	•	•	•					•				3/64				
DNMG 441 EEX		DNMG 150604N-EX																							•												1/64				
DNMG 442 EEX		DNMG 150608N-EX																							•							★					1/32				
DNMG 443 EEX		DNMG 150612N-EX			•												3/64																								

DNMG			Coated										Cermet	Uncoated	Dimensions (Inches)				Insert Hole																								
EGU				AC1000	AC2000	AC3000	AC700G	AC304				T1200A						Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application																				
Sumitomo Cat. No.		New ISO Cat. No.																																									
DNMG 331 EGU		DNMG 090404N-GU																						★	★												3/8	3/16	1/64	.2031		Medium Cutting	
DNMG 332 EGU		DNMG 090408N-GU																						★	★													1/32					
DNMG 431 EGU		DNMG 150404N-GU																						▲	•	•	•				•							1/64					
DNMG 432 EGU		DNMG 150408N-GU																						▲	•	•	•				•							1/32					
DNMG 433 EGU		DNMG 150412N-GU																						▲	•	•	•	★										3/64					
DNMG 441 EGU		DNMG 150604N-GU		★	★													1/64																									
DNMG 442 EGU		DNMG 150608N-GU		•	★	★					★							1/32																									
DNMG 443 EGU		DNMG 150612N-GU		•	★	★					★							3/64																									

Indexable Inserts

Indexable Inserts

General Info

Negative Inserts

Positive Inserts

DNMM	Chip Breaker	Coated	Uncoated	Dimensions (Inches)	Insert Hole
EHP					
Sumitomo Cat. No.	New ISO Cat. No.	AC3000		Inscribed Circle	Thickness
DNMM 431 EHP	DNMM 150404N-HP				1/64
DNMM 432 EHP	DNMM 150408N-HP	★			1/32
DNMM 433 EHP	DNMM 150412N-HP	★			3/64
DNMM 434 EHP	DNMM 150416N-HP				1/16
DNMM 441 EHP	DNMM 150604N-HP				1/64
DNMM 442 EHP	DNMM 150608N-HP	•			1/32
DNMM 443 EHP	DNMM 150612N-HP	★			3/64

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

DNMA	No Breaker	Coated	Uncoated	Dimensions (Inches)	Insert Hole
—					
Sumitomo Cat. No.	New ISO Cat. No.	AC300G	AC500G	AC700G	Inscribed Circle
DNMA 431	DNMA 150404			★	1/64
DNMA 432	DNMA 150408	•	•		1/32
DNMA 433	DNMA 150412	•	▲		3/64
DNMA 442	DNMA 150608	★	★		1/32
DNMA 443	DNMA 150612	★			3/64

PCBN & PCD Inserts

Toolholders

Swiss Toolholders

PARALLELOGRAM INSERTS

KNUX	Chip Breaker	Coated	Uncoated	Dimensions (Inches)	Insert Hole
—					
Sumitomo Cat. No.	New ISO Cat. No.	AC2000	AC720	A30	A
KNUX 160405R-11		•	▲		.020
KNUX 160405L-11		•	▲		.020
KNUX 160410R-11		•			.040
KNUX 160410L-11		•			.040
KNUX 160405R-12		•			.020
KNUX 160405L-12		•		▲	.020
KNUX 160410R-12		•			.040
KNUX 160410L-12		•			.040

Boring Bars

Technical Info

ALMT

ROUND INSERTS

RNMG	Chip Breaker	Coated	Uncoated	Dimensions (Inches)	Insert Hole
ENT/FNT					
Sumitomo Cat. No.	New ISO Cat. No.	AC3000		Inscribed Circle	Thickness
RNMG 43 ENT		•		1/2	3/16

General Info

Negative Inserts

RNMG	Chip Breaker	Coated	Uncoated	Dimensions (Inches)	Insert Hole
ENU					
Sumitomo Cat. No.	New ISO Cat. No.	AC3000		Inscribed Circle	Thickness
RNMG 54 ENU		•		5/8	1/4

Positive Inserts

Ace-Fix Inserts

RNMG	Chip Breaker	Coated	Uncoated	Dimensions (Inches)	Insert Hole
ENV					
Sumitomo Cat. No.	New ISO Cat. No.	AC3000		Inscribed Circle	Thickness
RNMG 64 ENV		•		3/4	1/4

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

RNMG	Chip Breaker	Coated	Uncoated	Dimensions (Inches)	Insert Hole
ENY					
Sumitomo Cat. No.	New ISO Cat. No.	AC3000		Inscribed Circle	Thickness
RNMG 32 ENY		•		3/8	1/8
RNMG 84 ENY				1	1/4
RNMG 86 ENY		•		3/8	.3622

PCBN & PCD Inserts

Toolholders

Swiss Toolholders

RNMA	No Breaker	Coated	Uncoated	Dimensions (Inches)	Insert Hole
—					
Sumitomo Cat. No.	New ISO Cat. No.	AC300G	AC500G	AC700G	G10E
RNMA 32			▲		3/8
RNMA 43		•	▲		1/2
RNMA 54			•		5/8
RNMA 64				▲	3/4
RNMA 86				▲	1

90° SQUARE INSERTS

Boring Bars

Technical Info

ALMT

SNMG	Chip Breaker	Coated	Cermet	Uncoated	Dimensions (Inches)	Insert Hole
EFL						
Sumitomo Cat. No.	New ISO Cat. No.	AC2000	T2000Z	T3000Z	Inscribed Circle	Thickness
SNMG 432 EFL	SNMG 120408N-FL	★	★	★	1/2	3/16

Indexable Inserts

Indexable Inserts

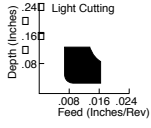
General Info	SNMG		 	Coated				Cermet			Uncoated			Dimensions (Inches)				Insert Hole				
	ESP							T1200A						Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.		
	Sumitomo Cat. No.		New ISO Cat. No.												Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.	
	SNMG 432 ESP		SNMG 120408N-SP						•						1/2		3/16		1/32		.2031	
Negative Inserts																						
Positive Inserts																						
Ace-Fix Inserts	SNMG		 	Coated				Cermet			Uncoated			Dimensions (Inches)				Insert Hole				
	ESU							T2000Z T3000Z T1200A			EH510			Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.		
	Sumitomo Cat. No.		New ISO Cat. No.		AC2000 AC3000 AC700G EH510Z EH520Z AC304				T2000Z T3000Z T1200A			EH510			Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.	
	SNMG 432 ESU		SNMG 120408N-SU		• • • • • ★				• ★ •			•			1/2		3/16		1/32		.2031	
Threading, Grooving, & Cut-Off Inserts																						
Ceramic Inserts	SNMG		 	Coated		Cermet			Uncoated			Dimensions (Inches)				Insert Hole						
	ELU			AC2000 AC700G		T2000Z T3000Z						Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.				
	Sumitomo Cat. No.		New ISO Cat. No.		AC2000 AC700G		T2000Z T3000Z						Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.			
	SNMG 432 ELU		SNMG 120408N-LU		• •		• • ★						1/2		3/16		1/32		.2031			
PCBN & PCD Inserts	SNMG 433 ELU		SNMG 120412N-LU		★ ★		★ ★								3/64							
Toolholders	SNMG		 	Cermet			Uncoated			Dimensions (Inches)				Insert Hole								
	EFJ			T1200A						Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.						
	Sumitomo Cat. No.		New ISO Cat. No.		T1200A						Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.					
	SNMG 321 EFJ		SNMG 090304N-SJ		•						3/8		1/8		1/64		.150					
Swiss Toolholders	SNMG 322 EFJ		SNMG 090308N-SJ		•										1/32							
	SNMG 431 EFJ		SNMG 090304N-SJ		•										1/64							
	SNMG 432 EFJ		SNMG 120408N-SJ								1/2		3/16		1/32		.2031					
	SNMG 433 EFJ		SNMG 120412N-SJ												3/64							
Boring Bars																						

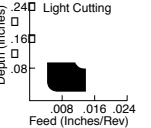
• = USA stocked item

★ = Worldwide Warehouse item

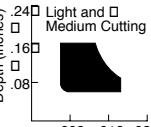
▲ = USA limited availability item

- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

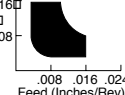
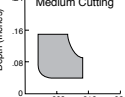
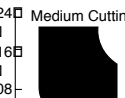
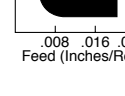
SNMG			Chip Breaker	Coated								Cermet				Dimensions (Inches)				Insert Hole	
ENK				AC2000								T110A	T1200A	T130Z			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.																			
SNMG 321 ENK		SNMG 090304N-SK		•												3/8	1/8	1/64	.150		
SNMG 322 ENK		SNMG 090308N-SK		•							▲	•	▲					1/32			
SNMG 431 ENK		SNMG 120404N-SK		•								•						1/64			
SNMG 432 ENK		SNMG 120408N-SK		•												1/2	3/16	1/32	.2031		
SNMG 433 ENK		SNMG 120412N-SK																3/64			

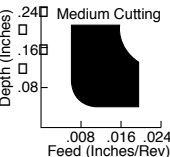
SNMG			Chip Breaker	Coated								Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
ESX				AC1000	AC2000	AC3000	AC700G						T200Z	T300Z	T1200A			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.
Sumitomo Cat. No.		New ISO Cat. No.																			
SNMG 431 ESX		SNMG 120404N-SX									•	★	•					1/64			
SNMG 432 ESX		SNMG 120408N-SX		▲	•	•					•	★	•			1/2	3/16	1/32	.2031		
SNMG 433 ESX		SNMG 120412N-SX		•	•	•												3/64			

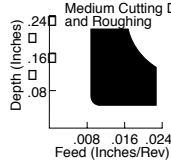
SNMG			Chip Breaker	Coated								Cermet				Dimensions (Inches)				Insert Hole	
EUU				AC2000													Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.																			
SNMG 432 EUU		SNMG 120408N-UU			•													1/32			
SNMG 433 EUU		SNMG 120412N-UU			•													3/64	.2031		
SNMG 434 EUU		SNMG 120416N-UU																1/16			

SNMG			Chip Breaker	Coated								Uncoated				Dimensions (Inches)				Insert Hole	
ENJ				AC2000	AC3000												Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.																			
SNMG 321 ENJ		SNMG 090304N-UJ			•													1/64	.150		
SNMG 322 ENJ		SNMG 090308N-UJ			•													1/32			
SNMG 431 ENJ		SNMG 120404N-UJ			•													1/64			
SNMG 432 ENJ		SNMG 120408N-UJ																1/32	.2031		
SNMG 433 ENJ		SNMG 120412N-UJ																3/64			

Indexable Inserts

General Info	SNMG		 	Coated					Uncoated				Dimensions (Inches)				Insert Hole						
	EUP																						
	Sumitomo Cat. No.			New ISO Cat. No.		AC2000	AC3000	AC720	EH10Z	EH20Z	AC304						G10E		Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Negative Inserts	SNMG 431 EUP		SNMG 120404N-UP		★	•	▲									▲	1/2	3/16	1/64	.2031	 Depth (Inches) 24 16 8 0 Light and Medium Cutting Feed (Inches/Rev) .008 .016 .024		
	SNMG 432 EUP		SNMG 120408N-UP		•	•	▲	▲	•							▲			1/32				
	SNMG 433 EUP		SNMG 120412N-UP		•				•										3/64				
Positive Inserts	SNMG		 	Coated					Uncoated				Dimensions (Inches)				Insert Hole						
	EEX																						
	Sumitomo Cat. No.			New ISO Cat. No.		AC304	EH510Z	EH520Z									EH510	EH520	Inscribed Circle	Thickness		Nose Radius	Insert Hole Dia.
Threading, Grooving, & Cut-Off Inserts	SNMG 431 EEX		SNMG 120404N-EX		★	★	★											1/2	3/16	1/64	.2031	 Depth (Inches) 24 16 8 0 Medium Cutting Feed (Inches/Rev) .008 .016 .024	
	SNMG 432 EEX		SNMG 120408N-EX		•	•	•								•	•				1/32			
	SNMG 433 EEX		SNMG 120412N-EX		•	★														3/64			
Ceramic Inserts	SNMG		 	Coated					Cermet				Dimensions (Inches)				Insert Hole						
	EGU																						
	Sumitomo Cat. No.			New ISO Cat. No.		AC1000	AC2000	AC3000	AC700G	AC304							T1200A						
PCBN & PCD Inserts	SNMG 321 EGU		SNMG 090304N-GU		★													3/8	1/8	1/64	.150	 Depth (Inches) 24 16 8 0 Medium Cutting Feed (Inches/Rev) .008 .016 .024	
	SNMG 322 EGU		SNMG 090308N-GU		★															1/32			
	SNMG 431 EGU		SNMG 120404N-GU		★	★		★							★					1/64			
Toolholders	SNMG 432 EGU		SNMG 120408N-GU		▲	•	•	•							•			1/2	3/16	1/32	.2031	 Depth (Inches) 24 16 8 0 Medium Cutting Feed (Inches/Rev) .008 .016 .024	
	SNMG 433 EGU		SNMG 120412N-GU		▲	•	•	•	★											3/64			
	SNMG 434 EGU		SNMG 120416N-GU		▲	•	•	•												1/16			
	SNMG 543 EGU		SNMG 150612N-GU		•	•														3/64	.250		
Swiss Toolholders	SNMG		 	Coated					Cermet				Uncoated				Dimensions (Inches)				Insert Hole		
	EUX																						
	Sumitomo Cat. No.			New ISO Cat. No.		AC1000	AC2000	AC3000	AC700G	AC300G													
Boring Bars	SNMG 322 EUX		SNMG 090308N-UX		▲		•											3/8	1/8	1/32	.150	 Depth (Inches) 24 16 8 0 Medium Cutting Feed (Inches/Rev) .008 .016 .024	
	SNMG 431 EUX		SNMG 120404N-UX		▲	•	•													1/64			
	SNMG 432 EUX		SNMG 120408N-UX		▲	•	•	•	•	★								1/2	3/16	1/32	.2031		
Technical Info	SNMG 433 EUX		SNMG 120412N-UX		▲	•	•	•	★											3/64		 Depth (Inches) 24 16 8 0 Medium Cutting Feed (Inches/Rev) .008 .016 .024	
	SNMG 434 EUX		SNMG 120416N-UX		▲	•	•	•	★											1/16			
	SNMG 643 EUX		SNMG 190612N-UX		•	•	•	★	★									3/4	1/4	3/64	.3126		
	SNMG 644 EUX		SNMG 190616N-UX		•	•	•	★	★											1/16			

SNMG			Coated										Cermet		Un-coated	Dimensions (Inches)				Insert Hole	
ENG			AC1000	AC2000	AC3000	AC700G	AC720	EH10Z	EH20Z	AC304	T1200A	T130Z		EH10	Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
Sumitomo Cat. No.			New ISO Cat. No.																	Application	
SNMG 322 ENG		SNMG 090308N-UG		•	•						•	▲			3/8	1/8	1/32	.150			
SNMG 432 ENG		SNMG 120408N-UG	▲	•	•	•	▲	▲	•		•		▲				1/32	.2031			
SNMG 433 ENG		SNMG 120412N-UG	▲	•	•	•					•			1/2	3/16	3/64					
SNMG 434 ENG		SNMG 120416N-UG	▲	•	•												1/16				
SNMG 543 ENG		SNMG 150612N-UG		•	•		▲							5/8	1/4	3/64	.250				
SNMG 544 ENG		SNMG 150616N-UG															1/16				
SNMG 643 ENG		SNMG 190612N-UG		•	•									3/4	1/4	3/64	.3126				
SNMG 644 ENG		SNMG 190616N-UG		•	•												1/16				
SNMG 866 ENG		SNMG 250924N-UG		•	•									1	3/8	3/32	.3622				

SNMG ENZ			Chip Breaker 	Coated								Uncoated				Dimensions (Inches)				Insert Hole	
Sumitomo Cat. No.	New ISO Cat. No.			AC2000	AC3000	AC720	AC300G	AC500G	AC700G							Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application
SNMG 432 ENZ	SNMG 120408N-UZ		•	•	▲		▲	•							1/2	3/16	1/32	.2031			
SNMG 433 ENZ	SNMG 120412N-UZ		•	•		•	▲	•									3/64				
SNMG 434 ENZ	SNMG 120416N-UZ		•	•													1/16				
SNMG 543 ENZ	SNMG 150612N-UZ		•	•			•	▲	•					5/8	1/4	3/64	.250				
SNMG 544 ENZ	SNMG 150616N-UZ		•	•													1/16				
SNMG 634 ENZ	SNMG 190416N-UZ														3/16	1/16					
SNMG 642 ENZ	SNMG 190608N-UZ				•												1/32	.3126			
SNMG 643 ENZ	SNMG 190612N-UZ		•	•			▲								3/4	1/4	3/64				
SNMG 644 ENZ	SNMG 190616N-UZ		•	•	▲			•									1/16				
SNMG 866 ENZ	SNMG 250924N-UZ		•	•											1	3/8	3/32	.3622			

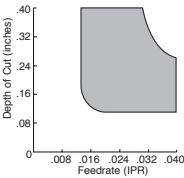
Indexable Inserts

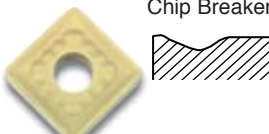
General Info	SNMG		Chip Breaker	Coated								Uncoated				Dimensions (Inches)				Insert Hole		
Negative Inserts																						
	EMU																			Application		
	Sumitomo Cat. No.		New ISO Cat. No.		AC1000	AC2000	AC3000	AC304	AC300G	AC500G	AC700G	EH20Z	EH520Z	EH510Z	EH520							
Positive Inserts	SNMG 432 EMU		SNMG 120408N-MU		•	•	•	•				▲	•									
	SNMG 433 EMU		SNMG 120412N-MU		▲	•	•	★		▲	•	▲	•						1/2	3/16	1/32	.2031
	SNMG 434 EMU		SNMG 120416N-MU			★	•														1/16	.250
	SNMG 543 EMU		SNMG 150612N-MU		▲	•	•		•		•	•							5/8		3/64	.250
	SNMG 544 EMU		SNMG 150616N-MU		▲	•	•				•									1/4	1/16	.3126
	SNMG 643 EMU		SNMG 190612N-MU			•	•			▲			•	•					3/4		3/64	.3126
	SNMG 644 EMU		SNMG 190616N-MU		▲	•	•					•	•	•	•						1/16	
Ace-Fix Inserts	SNMG		Chip Breaker	Coated								Cermet				Dimensions (Inches)				Insert Hole		
Threading, Grooving, & Cut-Off Inserts																						
	EMX																				Application	
	Sumitomo Cat. No.		New ISO Cat. No.		AC2000	AC3000																
Ceramic Inserts	SNMG 432 EMX		SNMG 120408N-MX		•	•																
	SNMG 433 EMX		SNMG 120412N-MX			•													1/2	3/16	1/32	.2031
	SNMG 434 EMX		SNMG 120416N-MX			★															1/16	.250
	SNMG 543 EMX		SNMG 150612N-MX			•	•												5/8	1/4	3/64	.250
	SNMG 544 EMX		SNMG 150616N-MX			•	•														1/16	.3126
	SNMG 643 EMX		SNMG 190612N-MX			•	•												3/4	1/4	3/64	.3126
	SNMG 644 EMX		SNMG 190616N-MX			•	•														1/16	
PCBN & PCD Inserts	SNMM		Chip Breaker	Coated								Uncoated				Dimensions (Inches)				Insert Hole		
Toolholders																						
	ENP																				Application	
	Sumitomo Cat. No.		New ISO Cat. No.		AC2000	AC3000																
Swiss Toolholders	SNMM 432 ENP		SNMM 120408N-MP		★	•																
	SNMM 433 ENP		SNMM 120412N-MP			•	★															
	SNMM 434 ENP		SNMM 120416N-MP			★	★															
	SNMM 544 ENP		SNMM 150616N-MP																			
	SNMM 643 ENP		SNMM 190612N-MP			•	•															
	SNMM 644 ENP		SNMM 190616N-MP			★	•															
Boring Bars	SNMM 856 ENP		SNMM 250824N-MP			★	★															
	SNMM 866 ENP		SNMM 250924N-MP																			
• = USA stocked item ★ = Worldwide Warehouse item ▲ = USA limited availability item																						

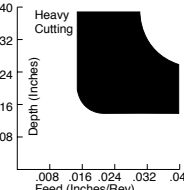


Always use the strongest insert geometry possible for your roughing applications.

Indexable Inserts

SNMM		 	Coated						Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
EHG			AC2000	AC3000								Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
Sumitomo Cat. No.		New ISO Cat. No.														Application		
SNMM 432 EHG		SNMM 120408N-HG		★	★													
SNMM 433 EHG		SNMM 120412N-HG		★									1/2	3/16	3/64	.2031		
SNMM 434 EHG		SNMM 120416N-HG		★	★										1/16			
SNMM 643 EHG		SNMM 190612N-HG		★											3/64			
SNMM 644 EHG		SNMM 190616N-HG		★	★								3/4	1/4	1/16	.3126		
SNMM 646 EHG		SNMM 190624N-HG		★	★										3/32			

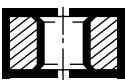
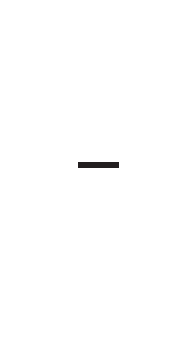
SNMM			Coated								Uncoated			Dimensions (Inches)				Insert Hole	
EHP			AC2000	AC3000								G10E	Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application	
Sumitomo Cat. No.		New ISO Cat. No.																	
SNMM 432 EHP		SNMM 120408N-HP	★	★								▲			1/32				
SNMM 433 EHP		SNMM 120412N-HP	★	★									1/2	3/16	3/64		2031		
SNMM 434 EHP		SNMM 120416N-HP		★											1/16				
SNMM 643 EHP		SNMM 190612N-HP	★	•											3/64				
SNMM 644 EHP		SNMM 190616N-HP	★	★									3/4	1/4	1/16		3126		
SNMM 856 EHP		SNMM 250724N-HP	★	•								▲			5/16	3/32			
SNMM 866 EHP		SNMM 250924N-HP	•									▲	1	3/8	3/32		3622		



Heavy Cutting

Depth (inches)

Feed (Inches/Rev)

SNMA		Coated				Uncoated				Dimensions (Inches)				Insert Hole									
		AC300G	AC500G	AC700G					G10E	H1		Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.								
Sumitomo Cat. No.		New ISO Cat. No.														Application							
SNMA 321		SNMA 090304																					
SNMA 322		SNMA 090308			•	▲	•							▲					3/8	1/8	1/64	.150	
SNMA 431		SNMA 120404			★		★														1/32		
SNMA 432		SNMA 120408			•		•							★							1/64		
SNMA 433		SNMA 120412			•	▲	•												1/2	3/16	1/32	.2031	
SNMA 434		SNMA 120416			•		•														3/64		
SNMA 435		SNMA 120420			★		★														1/16		
SNMA 542		SNMA 150608																			5/64		
SNMA 543		SNMA 150612			•	▲	•												5/8	1/4	1/32	.250	
SNMA 643		SNMA 190612																			3/64		
SNMA 644		SNMA 190616																	3/4	1/4	3/64	.3126	
																					1/16		

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

Toolholders

Swiss Toolholders

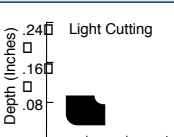
Boring Bars

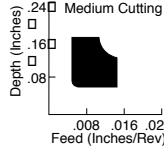
Technical Info

ALMT

Indexable Inserts

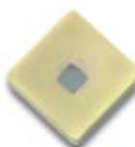
Indexable Inserts

General Info	SNP _{R/L}			Chip Breaker		Cermet			Uncoated			Dimensions (Inches)				Insert Hole	
	T			T2000Z	T1200A	T130Z			G10E	ST20E			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Negative Inserts	Sumitomo Cat. No.		New ISO Cat. No.														Application
Positive Inserts	SNPR 321 T		SNGG 090304R-ST				•				★	★					
	SNPL 321 T		SNGG 090304L-ST				•				★	★					
	SNPR 322 T		SNGG 090308R-ST				•	▲			★	★					
	SNPL 322 T		SNGG 090308L-ST				•	▲			★	★					
	SNPR 323 T		SNGG 090312R-ST				•	•									

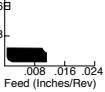
Ace-Fix Inserts	SNP _{R/L}		Chip Breaker		Cermet				Uncoated				Dimensions (Inches)				Insert Hole							
	M			T2000Z	T1200A	T110A					A30	G10E	ST20E					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application	
Threading, Grooving, & Cut-Off Inserts	Sumitomo Cat. No.		New ISO Cat. No.															1/2	3/16	1/64	1/32	1/32	1/64	Medium Cutting
Ceramic Inserts	SNPR 431 M		SNGG 120404R-UM		•	▲					★	★								1/64				
	SNPL 431 M		SNGG 120404L-UM		★	▲														1/32				
	SNPR 432 M		SNGG 120408R-UM		★	▲					★	★	★							1/32				
	SNPL 432 M		SNGG 120408L-UM		★	▲					★	★	★							1/32				
	SNPR 433 M		SNGG 120412R-UM		★															3/64				
	SNPL 433 M		SNGG 120412L-UM		•															3/64				

PCBN & PCD Inserts	SNMN		No Breaker		Coated			Cermet		Uncoated			Dimensions (Inches)				Insert Hole	
													Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
																	Application	
Toolholders	Sumitomo Cat. No.		New ISO Cat. No.					T1200A		G10E A30 ST20E ST30E			3/8	1/8	1/32			
	SNMN 322		SNMN 090308															
	SNMN 422		SNMN 120308							▲					1/32			
	SNMN 423		SNMN 120312											1/8	3/64			
Swiss Toolholders	SNMN 424		SNMN 120316												1/16			
	SNMN 432		SNMN 120408		★ ★			★		★ ★ ▲			1/2		1/32			
	SNMN 433		SNMN 120412		★ ★ •					•				3/16	3/64			
	SNMN 434		SNMN 120416		★ ★					▲					1/16			
	SNMN 435		SNMN 120420												5/64			
Boring Bars	SNMN 532		SNMN 150408							★			5/8	3/16	1/32			
	SNMN 533		SNMN 150412												3/64			
	SNMN 632		SNMN 190408												1/32			
	SNMN 633		SNMN 190412		▲					▲			3/4	3/16	3/64			
	SNMN 634		SNMN 190416		▲										1/16			

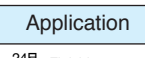
Technical Info	● = USA stocked item	
	★ = Worldwide Warehouse item	
	▲ = USA limited availability item	
ALMT	If tool pressure is a problem, try using a smaller nose radius or switch to a positive style insert.	

SNG		No Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)				Insert Hole		
												Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
—				EH10Z	AC325		T1200A									Application
Sumitomo Cat. No.		New ISO Cat. No.														
SNG 322		SNGN 090308										3/8	1/8	1/32		
SNG 422		SNGN 120308												1/32		
SNG 423		SNGN 120312											1/8	3/64		
SNG 424		SNGN 120316										1/2		1/16		
SNG 432		SNGN 120408		▲	▲		★							1/32		—
SNG 433		SNGN 120412											3/16	3/64		
SNG 632		SNGN 190408		▲										1/32		
SNG 633		SNGN 190412			▲							3/4	3/16	3/64		
SNG 634		SNGN 190416												1/16		

60° TRIANGLE INSERTS

TNMG		Chip Breaker	Coated		Cermet			Uncoated			Dimensions (Inches)				Insert Hole	
																
EFA					T2000Z	T3000Z	T1200A									Application
Sumitomo Cat. No.		New ISO Cat. No.														
TNMG 330.5 EFA		TNMG 160402N-FA				★	★									
TNMG 331 EFA		TNMG 160404N-FA				•	•	•								
TNMG 332 EFA		TNMG 160408N-FA				•	•	•								
TNMG 333 EFA		TNMG 160412N-FA														

TNMG			Chip Breaker	Coated					Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
EFL				AC2000						T2000Z	T3000Z			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.																Application
TNMG 331 EFL		TNMG 160404N-FL		★					★	★				3/8	3/16	1/64		
TNMG 332 EFL		TNMG 160408N-FL		★					★	★						1/32		

TNMG		Chip Breaker	Cermet		Uncoated				Dimensions (Inches)				Insert Hole		
											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
EFP			T110A	T1200A	T130Z										Application
Sumitomo Cat. No.		New ISO Cat. No.													
TNMG 321 EFP		TNMG 160304N-FP													
TNMG 322 EFP		TNMG 160308N-FP													
TNMG 331 EFP		TNMG 160404N-FP													
TNMG 332 EFP		TNMG 160408N-FP													

• = USA stocked item
★ = Worldwide Warehouse item
▲ = USA limited availability item



If tool pressure is a problem, try using a smaller nose radius or switch to a positive style insert.

Indexable Inserts

Indexable Inserts

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

**Threading
Grooving
& Cut-Off
Inserts**

Ceramic Inserts

**PCBN
& PCD
Insects**

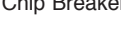
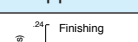
Toolholde

**Swiss
Toolholder**

Boring Bars

Technical Info

ALMT

TNMG			Chip Breaker		Coated	Cermet				Uncoated				Dimensions (Inches)				Insert Hole
ESP																		
Sumitomo Cat. No.		New ISO Cat. No.			T1200A									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
TNMG 331 ESP		TNMG 160404N-SP			•													
TNMG 332 ESP		TNMG 160408N-SP			•									3/8	3/16	1/64 1/32	.150	

TNMG			Chip Breaker		Coated					Cermet			Uncoated			Dimensions (Inches)				Insert Hole	
ESU				AC1000	AC2000	AC3000	AC304	AC700G	T110A	T200Z	T300Z	T1200A	Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application			
Sumitomo Cat. No.		New ISO Cat. No.																			
TNMG 321 ESU		TNMG 160304N-SU		•	•																
TNMG 322 ESU		TNMG 160308N-SU		•	•																
TNMG 323 ESU		TNMG 160312N-SU			•																
TNMG 331 ESU		TNMG 160404N-SU		•	•	•	•	★	•												
TNMG 332 ESU		TNMG 160408N-SU		•	•	•	•	•	•	•											
TNMG 333 ESU		TNMG 160412N-SU		▲	★	•	•		•	★	•										
TNMG 431 ESU		TNMG 220404N-SU							•												
TNMG 432 ESU		TNMG 220408N-SU							•												
TNMG 433 ESU		TNMG 220412N-SU							•												

Depth (Inches)

24□

16□

08□

Light Cutting

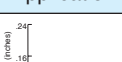


.008

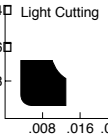
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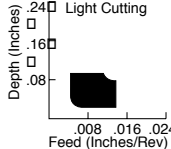
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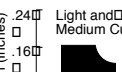
Feed (Inches/Rev)

TNMG			Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
ELU												Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.		AC2000	AC3000	AC700G	T1200A	T2000Z	T3000Z							Application 
TNMG 331 ELU		TNMG 160404N-LU		•	•	•	•	•								
TNMG 332 ELU		TNMG 160408N-LU		•	•	•	•	•								
TNMG 333 ELU		TNMG 160412N-LU		•	•	•	•	•								

[illegible]

TNMG			Chip Breaker		Coated						Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
ENK									T110A T1200A T130Z				Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.				
Sumitomo Cat. No.		New ISO Cat. No.		AC2000														Application		
TNMG 221 ENK		TNMG 110304N-SK		•										1/4	1/8	1/64	.089	 Depth (Inches) Feed (Inches/Rev) Light Cutting		
TNMG 321 ENK		TNMG 160304N-SK		•						▲ •				3/8	1/8	1/64	.150			
TNMG 322 ENK		TNMG 160308N-SK		•						•		1/32								
TNMG 331 ENK		TNMG 160404N-SK		•						▲ •		1/64								
TNMG 332 ENK		TNMG 160408N-SK		•						• •		1/32								
TNMG 431 ENK		TNMG 220404N-SK		•						•		1/64								
TNMG 432 ENK		TNMG 220408N-SK		•						• •		1/32		.2031						
TNMG 433 ENK		TNMG 220412N-SK										3/64								

TNMG			Chip Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole
				AC1000	AC2000	AC3000	AC700G	T2000Z	T3000Z	T1200A			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.
Sumitomo Cat. No.		New ISO Cat. No.														Application
TNMG 321 ESX		TNMG 160304N-SX			•	•										
TNMG 322 ESX		TNMG 160308N-SX			•	•										
TNMG 331 ESX		TNMG 160404N-SX		▲	•	•	•		•	★	•					
TNMG 332 ESX		TNMG 160408N-SX		▲	•	•	•		•	★	•					
TNMG 431 ESX		TNMG 220404N-SX		▲	•	•	•									2031
TNMG 432 ESX		TNMG 220408N-SX			•	•	•									
TNMG 433 ESX		TNMG 220412N-SX		▲	•	•	•									

TNMG			Chip Breaker				Coated				Cermet				Uncoated				Dimensions (Inches)				Insert Hole	
																								
EUU																					Application			
Sumitomo Cat. No.			New ISO Cat. No.			AC2000												Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	 Depth (Inches) Light and Medium Cutting Feed (Inches/Rev)		
TNMG 331 EUU			TNMG 160404N-UU					•									3/8	3/16	1/64	.150				
TNMG 332 EUU			TNMG 160408N-UU					•											1/32					
TNMG 431 EUU			TNMG 220404N-UU					•											1/64					
TNMG 432 EUU			TNMG 220408N-UU					•									1/2	3/16	1/32	.2031				
TNMG 433 EUU			TNMG 220412N-UU					•											3/64					

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General Info

Negative Inserts

Positive Inserts

Ace-Fix Insects

Threading Grooving & Cut-Off Inserts

Ceramic Inserts

**PCBN
& PCD
Insects**

Toolholder

Swiss Toolholder

Boring Bars

Technical Info

ALMT

Indexable Inserts

Indexable Inserts

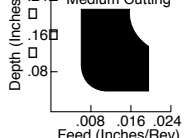
General Info	TNMG													
Negative Inserts	ENJ													
Positive Inserts	Sumitomo Cat. No. New ISO Cat. No.													
Ace-Fix Inserts	TNMG 221 ENJ	TNMG 110304N-UJ	•	•										
	TNMG 222 ENJ	TNMG 110308N-UJ	•	•										
	TNMG 321 ENJ	TNMG 160304N-UJ	•	•										
	TNMG 322 ENJ	TNMG 160308N-UJ	•	•										
	TNMG 331 ENJ	TNMG 160404N-UJ	▲	•										
Threading, Grooving, & Cut-Off Inserts	TNMG 332 ENJ	TNMG 160408N-UJ	•	•										
	TNMG 333 ENJ	TNMG 160412N-UJ	•	•										
	TNMG 431 ENJ	TNMG 220404N-UJ	•	•										
	TNMG 432 ENJ	TNMG 220408N-UJ	•	•										
	TNMG 433 ENJ	TNMG 220412N-UJ	•	•										
Ceramic Inserts	TNMG													
	FNJ													
	Sumitomo Cat. No. New ISO Cat. No.													
	TNMG 221 FNJ	TNMG 110304N-UJ												
	TNMG 222 FNJ	TNMG 110308N-UJ												
PCBN & PCD Inserts	TNMG 431 FNJ	TNMG 220404N-UJ												
	TNMG													
	ENA													
	Sumitomo Cat. No. New ISO Cat. No.													
	TNMG 321 ENA	TNMG 160304N-UA												
Toolholders	TNMG 322 ENA	TNMG 160308N-UA												
	TNMG 331 ENA	TNMG 160404N-UA												
	TNMG 332 ENA	TNMG 160408N-UA												
	TNMG 431 ENA	TNMG 220404N-UA												
	TNMG 432 ENA	TNMG 220408N-UA												
Swiss Toolholders	TNMG 433 ENA	TNMG 220412N-UA												
Boring Bars	TNMG													
	EUP													
	Sumitomo Cat. No. New ISO Cat. No.													
	TNMG 331 EUP	TNMG 160404N-UP	•	•										
Technical Info	TNMG 332 EUP	TNMG 160408N-UP	•	•										
	TNMG 333 EUP	TNMG 160412N-UP	•	•										
	TNMG 432 EUP	TNMG 220408N-UP	•	•										
	TNMG 433 EUP	TNMG 220412N-UP	•	•										
ALMT	Sumitomo Cat. No. New ISO Cat. No.													

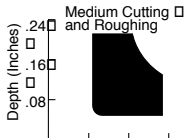
General Info	TNMG													
Negative Inserts	EEX													
Positive Inserts	Sumitomo Cat. No. New ISO Cat. No.													
Ace-Fix Inserts	TNMG 331 EEX	TNMG 160404N-EX	•	•										
	TNMG 332 EEX	TNMG 160408N-EX	•	•										
	TNMG 333 EEX	TNMG 160412N-EX	•	•										
	Sumitomo Cat. No. New ISO Cat. No.													
	TNMG 331 EGU	TNMG 160404N-GU	•	•										
Ceramic Inserts	TNMG 332 EGU	TNMG 160408N-GU	▲	•										
	TNMG 333 EGU	TNMG 160412N-GU	▲	•										
	TNMG 334 EGU	TNMG 160416N-GU	•	•										
	TNMG 431 EGU	TNMG 220404N-GU	•	•										
	TNMG 432 EGU	TNMG 220408N-GU	•	•										
PCBN & PCD Inserts	TNMG 433 EGU	TNMG 220412N-GU	•	•										
	TNMG													
	EUX													
	Sumitomo Cat. No. New ISO Cat. No.													
	TNMG 321 EUX	TNMG 160204N-UX	•	•										
Toolholders	TNMG 322 EUX	TNMG 160208N-UX	•	•										
	TNMG 331 EUX	TNMG 160404N-UX	▲	•										
	TNMG 332 EUX	TNMG 160408N-UX	▲	•										
	TNMG 333 EUX	TNMG 160412N-UX	•	•										
	TNMG 432 EUX	TNMG 220408N-UX	•	•										
Swiss Toolholders	TNMG 433 EUX	TNMG 220412N-UX	•	•										

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Indexable Inserts

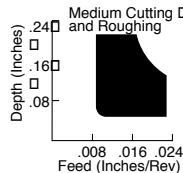
Indexable Inserts

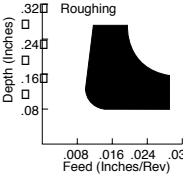
General Info	TNMG		 		Coated						Cermet			Dimensions (Inches)				Insert Hole				
Negative Inserts	ENG				AC1000	AC2000	AC3000	AC700G	AC304	AC720			T1200A					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
	Sumitomo Cat. No.		New ISO Cat. No.																			Application
Positive Inserts	TNMG 321 ENG		TNMG 160304N-UG		•													3/8	1/8	1/64	.150	
	TNMG 322 ENG		TNMG 160308N-UG		•	•			•								1/32					
	TNMG 331 ENG		TNMG 160404N-UG		•	•											1/64					
	TNMG 332 ENG		TNMG 160408N-UG		▲		•	•		▲			•				1/32					
	TNMG 333 ENG		TNMG 160412N-UG		▲	★	•	•					•				3/64					
Ace-Fix Inserts	TNMG 334 ENG		TNMG 160416N-UG															1/2	3/16	1/16	.2031	
	TNMG 432 ENG		TNMG 220408N-UG		▲	•	•		•								1/32					
	TNMG 433 ENG		TNMG 220412N-UG		▲	•	•			▲							3/64					
	TNMG 434 ENG		TNMG 220416N-UG				•										1/16					
	TNMG 443 ENG		TNMG 220612N-UG			•														3/64		
Threading, Grooving, & Cut-Off Inserts	TNMG 542 ENG		TNMG 270608N-UG			•	•											5/8	1/4	1/32	.250	
	TNMG 543 ENG		TNMG 270612N-UG			•	•										3/64					
	TNMG 544 ENG		TNMG 270616N-UG			•	•										1/16					
	TNMG 666 ENG		TNMG 330924N-UG			•	•													3/32		

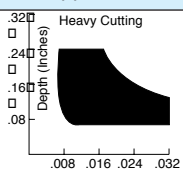
Ceramic Inserts	TNMG		 		Coated						Uncoated			Dimensions (Inches)				Insert Hole				
	ENZ				AC2000	AC3000	AC300G	AC500G	AC700G				ST30E					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
PCBN & PCD Inserts	Sumitomo Cat. No.		New ISO Cat. No.															3/8	1/8	1/32	.150	
	TNMG 322 ENZ		TNMG 160308N-UZ			•											3/64					
	TNMG 323 ENZ		TNMG 160312N-UZ			•											1/32					
	TNMG 332 ENZ		TNMG 160408N-UZ			•	•		▲	•							3/64					
	TNMG 333 ENZ		TNMG 160412N-UZ			•	•		▲	•										1/16		
Toolholders	TNMG 334 ENZ		TNMG 160416N-UZ															1/2	3/16	1/32	.2031	
	TNMG 432 ENZ		TNMG 220408N-UZ			•	•		•	▲	•						1/16					
	TNMG 433 ENZ		TNMG 220412N-UZ			•	•		•	▲	•		▲				3/64					
	TNMG 434 ENZ		TNMG 220416N-UZ			•	•										1/16					
	TNMG 443 ENZ		TNMG 220612N-UZ																	3/64		
Swiss Toolholders	TNMG 444 ENZ		TNMG 220616N-UZ				•											1/2	1/4	1/16	.250	
	TNMG 542 ENZ		TNMG 270608N-UZ			•	•										1/32					
	TNMG 543 ENZ		TNMG 270612N-UZ			•	•		•	▲	•		▲				3/64					
	TNMG 544 ENZ		TNMG 270616N-UZ			•	•										1/16					
	TNMG 548 ENZ		TNMG 270632N-UZ				•						▲							1/8		
	TNMG 666 ENZ		TNMG 330924N-UZ			•	•						▲					3/4	3/8	3/32	.3126	



If you are seeking a better surface finish, try using a larger nose radius.

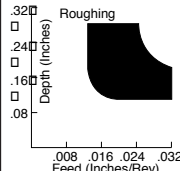
TNMG		 	Coated					Uncoated			Dimensions (Inches)				Insert Hole		
FNZ																	
Sumitomo Cat. No.		New ISO Cat. No.									G10E		Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
TNMG 334 FNZ		TNMG 160416N-UZ											3/8	3/16	1/16	.150	
TNMG 432 FNZ		TNMG 220408N-UZ									•				1/32		
TNMG 433 FNZ		TNMG 220412N-UZ									▲		1/2	3/16	3/64	.2031	
TNMG 434 FNZ		TNMG 220416N-UZ													1/16		
TNMG 542 FNZ		TNMG 270608N-UZ									▲				1/32		
TNMG 543 FNZ		TNMG 270612N-UZ											5/8	1/4	3/64	.250	
TNMG 544 FNZ		TNMG 270616N-UZ													1/16		
TNMG 548 FNZ		TNMG 270632N-UZ													1/8		
TNMG 666 FNZ		TNMG 330924N-UZ											3/4	3/8	3/32	.3126	

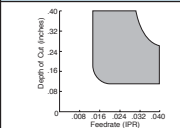
TNMG		 	Coated					Uncoated			Dimensions (Inches)				Insert Hole			
EMU																		
Sumitomo Cat. No.		New ISO Cat. No.	AC1000	AC2000	AC3000	AC300G	AC500G	AC700G	AC304	EH510Z	EH520Z		Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application	
TNMG 332 EMU		TNMG 160408N-MU	▲	•	•	•	•	•	★	•	•				1/32			
TNMG 333 EMU		TNMG 160412N-MU	▲	•	•	•	•	•	★	•	•				3/8	3/16		.150
TNMG 432 EMU		TNMG 220408N-MU		•	•		▲	•		•	•					1/32		
TNMG 433 EMU		TNMG 220412N-MU	▲	•	•	•		•					1/2	3/16	3/64	.2031		
TNMG 434 EMU		TNMG 220416N-MU	▲	•	•			•								1/16		
TNMG 543 EMU		TNMG 270612N-MU	▲	•	•			•					5/8	1/4	3/64	.250		
TNMG 544 EMU		TNMG 270616N-MU	▲	•	•			•								1/16		

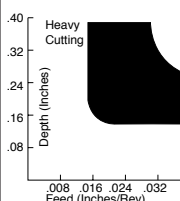
TNMG		 	Coated					Uncoated			Dimensions (Inches)				Insert Hole		
EMX																	
Sumitomo Cat. No.		New ISO Cat. No.	AC2000	AC3000									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
TNMG 332 EMX		TNMG 160408N-MX	•	•									3/8	3/16	1/32	.150	
TNMG 333 EMX		TNMG 160412N-MX	•	•											3/64		
TNMG 432 EMX		TNMG 220408N-MX	•	•									1/2	3/16	1/32	.2031	
TNMG 433 EMX		TNMG 220412N-MX	•	•											3/64		

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Indexable Inserts

General Info	TNMM		Chip Breaker		Coated								Uncoated				Dimensions (Inches)				Insert Hole	
Negative Inserts	ENP																					
	Sumitomo Cat. No.		New ISO Cat. No.		AC2000	AC3000	AC720										Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application	
Positive Inserts	TNMM 331 ENP		TNMM 160404N-MP		★												3/8	3/16	1/64	.150		
	TNMM 332 ENP		TNMM 160408N-MP		★	•												1/32				
	TNMM 333 ENP		TNMM 160412N-MP		★	★												3/64				
	TNMM 334 ENP		TNMM 160416N-MP															1/16				
	TNMM 432 ENP		TNMM 220408N-MP			•	•	▲											1/32			
	TNMM 433 ENP		TNMM 220412N-MP			•	•										1/2	3/16	3/64	.2031		
Ace-Fix Inserts	TNMM 434 ENP		TNMM 220416N-MP		★	★													1/16			
	TNMM 543 ENP		TNMM 270612N-MP														5/8	1/4	3/64	.250		
	TNMM 544 ENP		TNMM 270616N-MP																1/16			

Threading, Grooving, & Cut-Off Inserts	TNMM		Chip Breaker		Coated								Cermet	Uncoated		Dimensions (Inches)				Insert Hole		
	EHG																					
Ceramic Inserts	Sumitomo Cat. No.		New ISO Cat. No.		AC2000	AC3000											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application	
	TNMM 432 EHG		TNMM 220408N-HG		★	★											1/2	3/16	1/32	.2031		
	TNMM 433 EHG		TNMM 220412N-HG		★	★												3/64				
	TNMM 434 EHG		TNMM 220416N-HG		★														1/16			

PCBN & PCD Inserts	TNMM		Chip Breaker		Coated								Uncoated				Dimensions (Inches)				Insert Hole	
	EHP																					
Toolholders	Sumitomo Cat. No.		New ISO Cat. No.		AC3000	AC720											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application	
	TNMM 332 EHP		TNMM 160408N-HP		★	▲											3/8	3/16	1/32	.150		
Swiss Toolholders	TNMM 333 EHP		TNMM 160412N-HP																3/64			
	TNMM 432 EHP		TNMM 220408N-HP			•	▲										1/2	3/16	1/32	.2031		
	TNMM 433 EHP		TNMM 220412N-HP			▲													3/64			
	TNMM 434 EHP		TNMM 220416N-HP				▲												1/16			
	TNMM 543 EHP		TNMM 270612N-HP			•											5/8	1/4	3/64	.250		
	TNMM 544 EHP		TNMM 270616N-HP																1/16			

Boring Bars	TNMG		Chip Breaker		Coated								Uncoated				Dimensions (Inches)				Insert Hole	
	ENV																					
Technical Info	Sumitomo Cat. No.		New ISO Cat. No.		AC3000	AC720					ST30E						Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application	
	TNMG 436 ENV		TNMG 220424N-NV			•	▲				▲						1/2	3/16	3/32	.2031		
ALMT																						

Indexable Inserts

TNMG			Chip Breaker		Coated				Uncoated				Dimensions (Inches)				Insert Hole	
ENY											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.				
															Application			
Sumitomo Cat. No.			New ISO Cat. No.					AC720					ST30E					
TNMG 321 ENY			TNMG 160304N-NY												3/8	1/8	1/64	.150
TNMG 322 ENY			TNMG 160308N-NY											1/32				
TNMG 323 ENY			TNMG 160312N-NY											3/64				
TNMG 324 ENY			TNMG 160316N-NY									▲		1/16				
TNMG 326 ENY			TNMG 160324N-NY											3/32				
TNMG 331 ENY			TNMG 160404N-NY					▲							3/16		1/64	
TNMG 332 ENY			TNMG 160408N-NY					▲						1/32				
TNMG 333 ENY			TNMG 160412N-NY									▲		3/64				
TNMG 334 ENY			TNMG 160416N-NY									▲		1/16				

TNMA			No Breaker		Coated				Uncoated				Dimensions (Inches)				Insert Hole		
—											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.					
															Application				
Sumitomo Cat. No.			New ISO Cat. No.					AC105G	AC300G	AC500G	AC700G	EH10Z		ST30E		G10E	H1		
TNMA 222			TNMA 110308													1/4	1/8	1/32	.089
TNMA 321			TNMA 160304															1/64	.150
TNMA 322			TNMA 160308					•	▲	•	▲						1/32		
TNMA 323			TNMA 160312												▲	1/8	3/64		
TNMA 324			TNMA 160316														1/16		
TNMA 326			TNMA 160324														3/32		
TNMA 331			TNMA 160404						★	▲	★							1/64	.2031
TNMA 332			TNMA 160408					▲	•	▲	•						1/32		
TNMA 333			TNMA 160412						•	•	•						3/64		
TNMA 334			TNMA 160416						•	▲	•						1/16		
TNMA 335			TNMA 160420								★						5/64		
TNMA 431			TNMA 220404															1/64	.250
TNMA 432			TNMA 220408						•	▲	•	▲					1/32		
TNMA 433			TNMA 220412					▲	•		•			▲			3/64		
TNMA 434			TNMA 220416							•	•						1/16		
TNMA 436			TNMA 220424														3/32		
TNMA 438			TNMA 220432						•		•							1/8	.3126
TNMA 542			TNMA 270608							▲							1/32		
TNMA 543			TNMA 270612						•	▲				▲			3/64		
TNMA 544			TNMA 270616									▲					1/16		
TNMA 666			TNMA 330924								▲						3/4		

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Indexable Inserts

Indexable Inserts

General Info	TNP _{R/L}		Chip Breaker		Coated						Cermet		Uncoated		Dimensions (Inches)				Insert Hole							
	FX				ACZ310						T1200A		T2000Z		T3000Z		Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.			
Negative Inserts	Sumitomo Cat. No.		New ISO Cat. No.								T1200A		T2000Z		T3000Z											
	TNPR 330.5 FFX		TNGG 160402R-FX		★		★		★		★		★		★		3/8		3/16		1/128		.150			
Positive Inserts	TNPL 330.5 FFX		TNGG 160402L-FX		★		★		★		★		★		★		3/8		3/16		1/128					
	TNPR 331 FFX		TNGG 160404R-FX		★		★		★		★		★		★		3/8		3/16		1/64					
	TNPL 331 FFX		TNGG 160404L-FX		★		★		★		★		★		★		3/8		3/16		1/64					
	Ace-Fix Inserts	TNP _{R/L}		Chip Breaker		Coated						Cermet		Uncoated		Dimensions (Inches)				Insert Hole						
FY				ACZ310						T1200A		T2000Z		T3000Z		Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.				
Threading, Grooving, & Cut-Off Inserts	Sumitomo Cat. No.		New ISO Cat. No.							T1200A		T2000Z		T3000Z												Application
	TNPR 330.5 FFY		TNGG 160402R-FY		★		★		★		★		★		★		3/8		3/16		1/128		.150			
Ceramic Inserts	TNPL 330.5 FFY		TNGG 160402L-FY		★		★		★		★		★		★		3/8		3/16		1/128					
	TNPR 331 FFY		TNGG 160404R-FY		★		★		★		★		★		★		3/8		3/16		1/64					
	TNPL 331 FFY		TNGG 160404L-FY		★		★		★		★		★		★		3/8		3/16		1/64					
	PCBN & PCD Inserts	TNP _{R/L}		Chip Breaker		Cermet						Uncoated		Dimensions (Inches)				Insert Hole								
Q				T1200A T130Z						ST20E		Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.								
Toolholders	Sumitomo Cat. No.		New ISO Cat. No.							ST20E												Application				
	TNPL 220.5 Q		TNGG 110304L-FT		★		★		★		★		★		★		1/4		1/8		1/128		.089			
Swiss Toolholders	TNPR 221 Q		TNGG 110304R-FT		▲		▲		★		★		★		★		1/4		1/8		1/64					
	TNPL 221 Q		TNGG 110304L-FT		•		▲		★		★		★		★		1/4		1/8		1/64					
	TNPR 222 Q		TNGG 110308R-FT		•		▲		★		★		★		★		1/4		1/8		1/32					
	Boring Bars	TNPL 222 Q		TNGG 110308L-FT		•		▲		★		★		★		★		1/4		1/8		1/32				
Technical Info		TNP _{R/L}		Chip Breaker		Cermet						Uncoated		Dimensions (Inches)				Insert Hole								
		T				T1200A T130Z						G10ES ST20E		Inscribed Circle		Thickness		Nose Radius		Insert Hole Dia.						
ALMT		Sumitomo Cat. No.		New ISO Cat. No.								ST20E												Application		
	TNPR 320.5 T		TNGG 160302R-ST		★		★		★		★		★		★		3/8		1/8		1/128		.150			
Technical Info	TNPL 320.5 T		TNGG 160302L-ST		★		★		★		★		★		★		3/8		1/8		1/128					
	TNPR 321 T		TNGG 160304R-ST		•		•		★		★		★		★		3/8		1/8		1/64					
	TNPL 321 T		TNGG 160304L-ST		•		▲		★		★		★		★		3/8		1/8		1/64					
	Technical Info	TNPR 322 T		TNGG 160308R-ST		•		•		★		★		★		★		3/8		1/8		1/32				
TNPL 322 T		TNGG 160308L-ST		•		•		★		★		★		★		3/8		1/8		1/32						

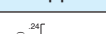
Indexable Inserts

Indexable Inserts

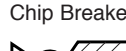
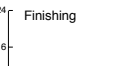
■ 35° DIAMOND INSERTS

VNMG		Chip Breaker 		Coated					Cermet		Uncoated		Dimensions (Inches)				Insert Hole 									
				AC2000							T2000Z	T3000Z					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.						
Sumitomo Cat. No.		New ISO Cat. No.																								
VNMG 331 EFL		VNMG 160404N-FL			★					★			★										3/8	3/16	1/64	.150
VNMG 332 EFL		VNMG 160408N-FL			★					★			★												1/32	

Depth of Cut (inches)



Feedrate (IPR)

VNMG		Chip Breaker 	Coated								Cermet		Uncoated		Dimensions (Inches)				Insert Hole		
ESP											T1200A				Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
Sumitomo Cat. No.		New ISO Cat. No.																		Application	
VNMG 331 ESP		VNMG 160404N-SP										•				3/8	3/16	1/64	.150	Depth (Inches) 	
VNMG 332 ESP		VNMG 160408N-SP										•						1/32			

VNMG		Chip Breaker 	Coated		Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
ELU														
Sumitomo Cat. No.		New ISO Cat. No.	AC2000	AC700G	T2000Z	T3000Z					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.
VNMG 331 ELU		VNMG 160404N-LU	•	•	•	★					3/8	3/16	1/64	.150
VNMG 332 ELU		VNMG 160408N-LU	•	•	•	★							1/32	

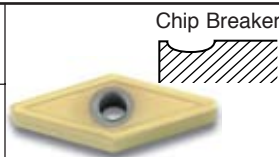
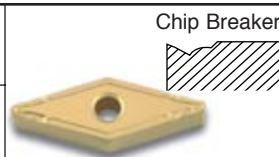
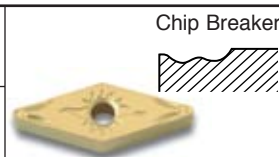
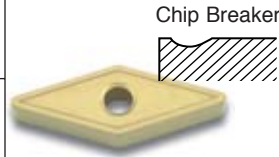


Depth of Cut (inches)

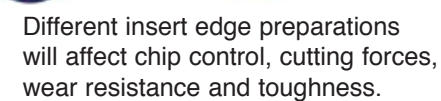
Feedrate (IPR)

- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

Indexable Inserts

General Info	VNMG		Chip Breaker 	Coated		Cermet		Uncoated				Dimensions (Inches)				Insert Hole	
	EFJ																
	Sumitomo Cat. No.			New ISO Cat. No.													Application
	VNMG 331 EFJ			VNMG 160404N-SJ													
VNMG 332 EFJ		VNMG 160408N-SJ															
Negative Inserts																	
Positive Inserts																	
Ace-Fix Inserts	VNMG		Chip Breaker 	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
	ESX																
	Sumitomo Cat. No.			New ISO Cat. No.		AC1000	AC2000	AC3000	AC700G		T1200A						Application
	VNMG 331 ESX			VNMG 160404N-SX		•	•	•	•		•						
VNMG 332 ESX		VNMG 160408N-SX		▲	•	•	•										
Threading, Grooving, & Cut-Off Inserts																	
Ceramic Inserts	VNMG		Chip Breaker 	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
	EUU																
	Sumitomo Cat. No.			New ISO Cat. No.			AC2000										Application
	VNMG 331 EUU			VNMG 160404N-UU			•										
VNMG 332 EUU		VNMG 160408N-UU			•												
PCBN & PCD Inserts																	
Toolholders																	
Swiss Toolholders	VNMG		Chip Breaker 	Coated				Uncoated				Dimensions (Inches)				Insert Hole	
	ENJ																
	Sumitomo Cat. No.			New ISO Cat. No.			AC2000										Application
	VNMG 331 ENJ			VNMG 160404N-UJ													
VNMG 332 ENJ		VNMG 160408N-UJ			•												
VNMG 333 ENJ		VNMG 160412N-UJ															
Boring Bars																	
Technical Info																	
ALMT																	

VNMG		Chip Breaker 	Coated					Cermet	Uncoated	Dimensions (Inches)				Insert Hole			
EUX											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
Sumitomo Cat. No.		New ISO Cat. No.	AC1000	AC2000	AC3000	AC300G	AC700G								Application		
VNMG 331 EUX		VNMG 160404N-UX	▲	●	●	●									Medium Cutting  Depth (Inches) 24 16 08 Feed (Inches/Rev) .008 .016 .024		
VNMG 332 EUX		VNMG 160408N-UX	▲	●	★	★							3/8	3/16		1/64 1/32	.150
VNMG 333 EUX		VNMG 160412N-UX	▲	★	★	●										3/64	

ALMT

Indexable Inserts

Indexable Inserts

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

Toolholders

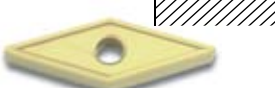
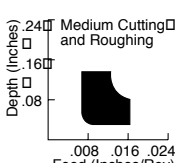
Swiss Toolholders

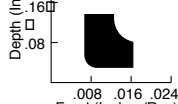
Boring Bars

Technical Info

ALMT

VNMG	Chip Breaker 		Coated					Cermet		Uncoated		Dimensions (Inches)				Insert Hole			
			AC1000	AC2000	AC3000	AC700G	AC720	T1200A	T130Z				Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
Sumitomo Cat. No.			New ISO Cat. No.													Application			
VNMG 331 ENG			VNMG 160404N-UG	•	•	•	•	▲	•	•					3/8	3/16	1/64	.150	Depth (Inches) 0.24 0.16 0.08 0.04  Feed (Inches/Rev) 0.08 0.16 0.24
VNMG 332 ENG			VNMG 160408N-UG	▲	•	•	•	•	•	•							1/32		

VNMG	Chip Breaker 	Coated				Uncoated				Dimensions (Inches)				Insert Hole	
		AC2000	AC3000	AC300G	AC500G						Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.												Application	
VNMG 331 ENZ		VNMG 160404N-UZ	•	•								1/64			
VNMG 332 ENZ		VNMG 160408N-UZ	•	•	▲					3/8	3/16	1/32	.150		
VNMG 333 ENZ		VNMG 160412N-UZ	•	•	▲							3/64			
VNMG 432 ENZ		VNMG 220408N-UZ	•	•							1/2	3/16	1/32	.2031	
VNMG 433 ENZ		VNMG 220412N-UZ	•	•									3/64		

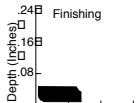
VNMG	FNZ			Coated				Uncoated				Dimensions (Inches)				Insert Hole	
														Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.
Sumitomo Cat. No.		New ISO Cat. No.															Application
VNMG 331 FNZ		VNMG 160404N-UZ										•		3/8	3/16	1/64	
VNMG 332 FNZ		VNMG 160408N-UZ										•				1/32	
VNMG 333 FNZ		VNMG 160412N-UZ														3/64	
VNMG 432 FNZ		VNMG 220408N-UZ												1/2	3/16	1/32	
VNMG 433 FNZ		VNMG 220412N-UZ														3/64	.2031

VNMA	No Breaker  	Coated				Uncoated				Dimensions (Inches)				Insert Hole			
										Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.				
Sumitomo Cat. No.		New ISO Cat. No.		AC300G	AC500G	AC700G	EH10Z							Application			
VNMA 331		VNMA 160404		★		★											
VNMA 332		VNMA 160408		•		•	▲					3/8	3/16		1/64	.150	
VNMA 333		VNMA 160412		•	▲	•							1/32		3/64		

80° TRIGON INSERTS

WNMG		Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
EFA				T2000Z	T3000Z	T1200A									Application
Sumitomo Cat. No.		New ISO Cat. No.													
WNMG 430.5 EFA		WNMG 080402N-FA		★	★	★								1/128	
WNMG 431 EFA		WNMG 080404N-FA		•	★	•								1/64	
WNMG 432 EFA		WNMG 080408N-FA		•	★	•								1/32	
WNMG 433 EFA		WNMG 080412N-FA												3/64	

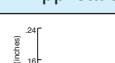
24B Finishing

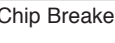
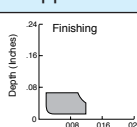


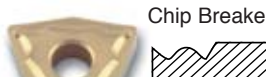
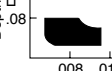
Depth (Inches)

Feed (Inches/Rev)

WNMG		Chip Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
			AC2000					T2000Z	T3000Z			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
EFL															Application	
Sumitomo Cat. No.		New ISO Cat. No.														
WNMG 431 EFL		WNMG 080404N-FL		★						★	★					
WNMG 432 EFL		WNMG 080408N-FL		★						★	★					



WNMG	 Chip Breaker 	Coated		Cermet		Uncoated		Dimensions (Inches)				Insert Hole		
									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
Sumitomo Cat. No.		New ISO Cat. No.		T1200A								Application		
WNMG 431 ESP		WNMG 080404N-SP		•									 Depth (Inches) Feed (Inches/Rev)	
WNMG 432 ESP		WNMG 080408N-SP		•										

WNGG WNMG			Coated						Cermet			Uncoated	Dimensions (Inches)				Insert Hole		
			AC1000	AC2000	AC3000	AC700G	AC304	EH520Z	T2000Z	T3000Z	T1200A		EH510	Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
ESU																		Application	
Sumitomo Cat. No.		New ISO Cat. No.																	
WNGG 431 ESU		WNGG 080404N-SU					•		★	★					1/2	3/16	1/64	.2031	 Depth (Inches) 240 160 80 0 Feed (Inches/Rev) .008 .016 .024
WNMG 331 ESU		WNMG 060404N-SU		•	•	•									3/8	3/16	1/64	.150	
WNMG 332 ESU		WNMG 060408N-SU		•	•												1/32		
WNMG 431 ESU		WNMG 080404N-SU		•	•	•	★		•	★	•						1/64		
WNMG 432 ESU		WNMG 080408N-SU		•	•	•	•		•	★	•		★		1/2	3/16	1/32	.2031	
WNMG 433 ESU		WNMG 080412N-SU	▲	★	•	•	•		•	★	•						3/64		

- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

Toolholders

Swiss Toolholders

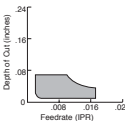
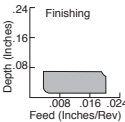
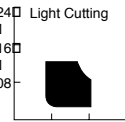
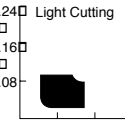
Boring Bars

Technical Info

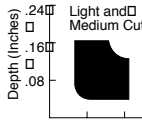
ALMT

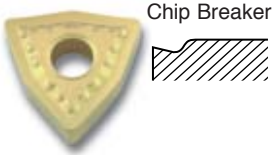
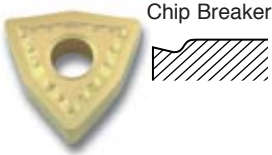
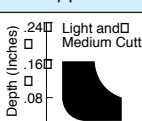
Indexable Inserts

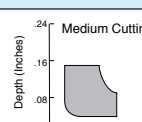
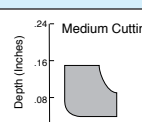
Indexable Inserts

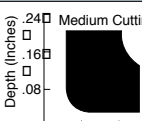
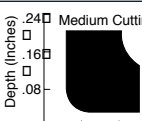
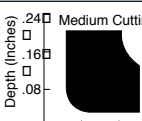
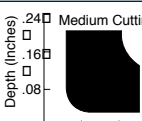
General Info	WNUMG			Chip Breaker	Coated								Cermet				Dimensions (Inches)				Insert Hole									
	ELU				AC2000	AC3000	AC700G						T1200A	T2000Z	T3000Z			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.									
	Sumitomo Cat. No.																						New ISO Cat. No.		Application					
	WNUMG 431 ELU																						WNUMG 080404N-LU		• • •		• • •		• • •	
	WNUMG 432 ELU																						WNUMG 080408N-LU		• • •		• • •		• • •	
Negative Inserts	WNUMG 433 ELU		WNUMG 080412N-LU		• • •		• • •		• • •		• • •		• • •		1/2		3/16	1/64	.2031											
Positive Inserts	WNUMG			Chip Breaker	Coated								Cermet				Dimensions (Inches)				Insert Hole									
	ELUW				AC2000	AC700G							T2000Z	T3000Z			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.										
	Sumitomo Cat. No.																					New ISO Cat. No.		Application						
	WNUMG 331 ELUW																					WNUMG 060404N-LUW		• • •		• • •		• • •		
	WNUMG 332 ELUW																					WNUMG 060408N-LUW		• • •		• • •		• • •		
Threading, Grooving, & Cut-Off Inserts	WNUMG 431 ELUW		WNUMG 080404N-LUW		• • •		• • •		• • •		• • •		• • •		3/8		3/16	1/64	.150											
	WNUMG 432 ELUW		WNUMG 080408N-LUW		• • •		• • •		• • •		• • •		1/2		3/16	1/32	.2031													
	WNUMG 433 ELUW		WNUMG 080412N-LUW		• • •		• • •		• • •		• • •					1/64														
																1/32														
																3/64														
Ceramic Inserts	WNUMG			Chip Breaker	Coated								Cermet				Dimensions (Inches)				Insert Hole									
	ENK				AC2000								T130Z			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.											
	Sumitomo Cat. No.																				New ISO Cat. No.		Application							
	WNUMG 431 ENK																				WNUMG 080404N-SK		• • •		• • •		• • •			
	WNUMG 432 ENK																				WNUMG 080408N-SK		• • •		• • •		• • •			
PCBN & PCD Inserts	WNUMG 433 ENK		WNUMG 080412N-SK		• • •		• • •		• • •		• • •		1/2		3/16	1/64	.2031													
																1/32														
Toolholders	WNUMG			Chip Breaker	Coated								Cermet				Dimensions (Inches)				Insert Hole									
	ESX				AC1000	AC2000	AC3000	AC700G					T2000Z	T3000Z	T1200A			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.									
	Sumitomo Cat. No.																						New ISO Cat. No.		Application					
	WNUMG 431 ESX																						WNUMG 080404N-SX		▲ • • •		• • •		• • •	
	WNUMG 432 ESX																						WNUMG 080408N-SX		▲ • • •		• • •		• • •	
Boring Bars	WNUMG 433 ESX		WNUMG 080412N-SX		▲ • • •		• • •		• • •		• • •		1/2		3/16	1/64	.2031													
																1/32														
Technical Info	• = USA stocked item																													
	★ = Worldwide Warehouse item																													
	▲ = USA limited availability item																													

- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

General Info															
Negative Inserts	WNUMG EUU		Coated					Cermet			Dimensions (Inches)			Insert Hole	
			AC2000					T130Z			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
			Sumitomo Cat. No.	New ISO Cat. No.											
Positive Inserts	WNUMG EUU		WNUMG 432 EUU	WNUMG 080408N-UU		•		•			1/2	3/16	1/32	.2031	
			WNUMG 433 EUU	WNUMG 080412N-UU		•		•					3/64		

Ace-Fix Inserts															
Threading, Grooving, & Cut-Off Inserts	WNUMG EUP		Coated					Uncoated			Dimensions (Inches)			Insert Hole	
			AC2000	AC3000	EH10Z	EH20Z	AC304			G10E	Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
			Sumitomo Cat. No.	New ISO Cat. No.											
Ceramic Inserts	WNUMG EUP		WNUMG 432 EUP	WNUMG 080408N-UP		•	•	•	•	•	1/2	3/16	1/32	.2031	
			WNUMG 433 EUP	WNUMG 080412N-UP		•	•	•	•	•			3/64		

Ace-Fix Inserts															
Threading, Grooving, & Cut-Off Inserts	WNUMG EEX		Coated					Uncoated			Dimensions (Inches)			Insert Hole	
			AC304	EH510Z	EH520Z			EH510	EH520		Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
			Sumitomo Cat. No.	New ISO Cat. No.											
PCBN & PCD Inserts	WNUMG EEX		WNUMG 431 EEX	WNUMG 080404N-EX		•	•	•	•	•	1/2	3/16	1/64	.2031	
			WNUMG 432 EEX	WNUMG 080408N-EX		•	•	•	•	•			1/32		
			WNUMG 433 EEX	WNUMG 080412N-EX		•	•	•	•	•			3/64		
Toolholders	WNUMG EEX		WNUMG 431 EEX	WNUMG 080404N-EX		•	•	•	•	•	1/2	3/16	1/64	.2031	
			WNUMG 432 EEX	WNUMG 080408N-EX		•	•	•	•	•			1/32		
			WNUMG 433 EEX	WNUMG 080412N-EX		•	•	•	•	•			3/64		

Ace-Fix Inserts															
Threading, Grooving, & Cut-Off Inserts	WNUMG EGU		Coated					Cermet	Uncoated		Dimensions (Inches)			Insert Hole	
			AC1000	AC2000	AC3000	AC304	AC700G	T1200A			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application
			Sumitomo Cat. No.	New ISO Cat. No.											
Swiss Toolholders	WNUMG EGU		WNUMG 431 EGU	WNUMG 080404N-GU		▲	•	•	•	•	1/2	3/16	1/64	.2031	
			WNUMG 432 EGU	WNUMG 080408N-GU		▲	•	•	•	•			1/32		
			WNUMG 433 EGU	WNUMG 080412N-GU		▲	•	•	•	•			3/64		
Boring Bars	WNUMG EGU		WNUMG 431 EGU	WNUMG 080404N-GU		▲	•	•	•	•	1/2	3/16	1/64	.2031	
			WNUMG 432 EGU	WNUMG 080408N-GU		▲	•	•	•	•			1/32		
			WNUMG 433 EGU	WNUMG 080412N-GU		▲	•	•	•	•			3/64		
Technical Info	WNUMG EGU		WNUMG 431 EGU	WNUMG 080404N-GU		▲	•	•	•	•	1/2	3/16	1/64	.2031	
			WNUMG 432 EGU	WNUMG 080408N-GU		▲	•	•	•	•			1/32		
			WNUMG 433 EGU	WNUMG 080412N-GU		▲	•	•	•	•			3/64		
ALMT	WNUMG EGU		WNUMG 431 EGU	WNUMG 080404N-GU		▲	•	•	•	•	1/2	3/16	1/64	.2031	

Indexable Inserts

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

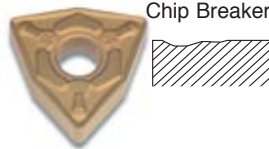
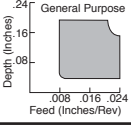
Toolholders

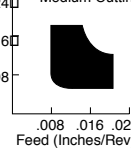
Swiss Toolholders

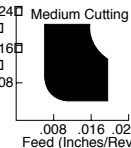
Boring Bars

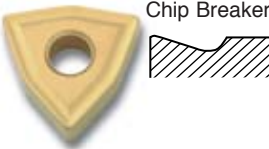
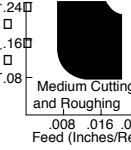
Technical Info

ALMT

WNUMG			Coated										Cermet			Dimensions (Inches)				Insert Hole	
EGUW			AC2000	AC700G									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application				
Sumitomo Cat. No.																	New ISO Cat. No.		General Purpose		
WNUMG 432 EGUW		WNUMG 080408N-GUW	•	•									1/2	3/16	1/64	.2031					
WNUMG 433 EGUW		WNUMG 080412N-GUW	•	•											1/32						

WNUMG			Coated										Uncoated			Dimensions (Inches)				Insert Hole	
EUX			AC1000	AC2000	AC3000	AC300G	AC700G						Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application				
Sumitomo Cat. No.																	New ISO Cat. No.		Medium Cutting		
WNUMG 431 EUX		WNUMG 080404N-UX	▲	•	•	•	•								1/64	.2031					
WNUMG 432 EUX		WNUMG 080408N-UX	▲	•	•	•	•							1/2	3/16	1/32					
WNUMG 433 EUX		WNUMG 080412N-UX	▲	•	•	•	•								3/64						

WNUMG			Coated										Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
ENG			AC1000	AC2000	AC3000	AC700G	AC720	EH10Z	EH20Z	AC304					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application			
Sumitomo Cat. No..																			New ISO Cat. No.		Medium Cutting	
WNUMG 431 ENG		WNUMG 080404N-UG	▲	•	•	•	•	•	•							1/64	.2031					
WNUMG 432 ENG		WNUMG 080408N-UG	•	•	•	▲	•	•	•					1/2	3/16	1/32						
WNUMG 433 ENG		WNUMG 080412N-UG	▲	•	•	▲			•							3/64						
WNUMG 543 ENG		WNUMG 160612N-UG	▲	•	•	▲								5/8	1/4	3/64	.250					

WNUMG			Coated										Uncoated			Dimensions (Inches)				Insert Hole	
ENZ			AC2000	AC3000	AC300G	AC700G							Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application				
Sumitomo Cat. No.																	New ISO Cat. No.		Medium Cutting and Roughing		
WNUMG 431 ENZ		WNUMG 080404N-UZ	•	•	•										1/64	.2031					
WNUMG 432 ENZ		WNUMG 080408N-UZ	•	•	•									1/2	3/16	1/32					
WNUMG 433 ENZ		WNUMG 080412N-UZ	•	•	•											3/64					

- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

Indexable Inserts

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

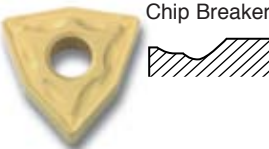
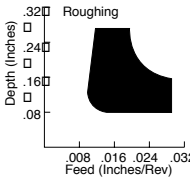
Toolholders

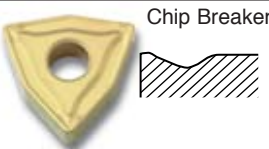
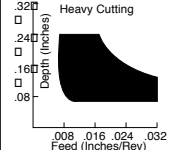
Swiss Toolholders

Boring Bars

Technical Info

ALMT

WNUMG			Coated												Uncoated			Dimensions (Inches)				Insert Hole	
EMU			AC1000	AC2000	AC3000	AC300G	AC500G	AC700G	AC304	EH10Z	EH20Z	EH510Z	EH520Z	Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application				
Sumitomo Cat. No.		New ISO Cat. No.																					
WNUMG 332 EMU		WNUMG 060408N-MU		▲	•	•		▲	•							3/8	3/16	1/32	.150				
WNUMG 333 EMU		WNUMG 060412N-MU			•	•												3/64					
WNUMG 432 EMU		WNUMG 080408N-MU			•	•		•	▲	•	•	•	•	•	•	1/2	3/16	1/32	.2031				
WNUMG 433 EMU		WNUMG 080412N-MU			•	•		•		▲	▲		•	•	•			3/64					
WNUMG 543 EMU		WNUMG 160612N-MU		▲	•				•							5/8	1/4	3/64	.250				

WNUMG			Coated												Uncoated			Dimensions (Inches)				Insert Hole	
EMX			AC2000	AC3000	AC105G																Application		
Sumitomo Cat. No.		New ISO Cat. No.																					
WNUMG 432 EMX		WNUMG 080408N-MX			•	•	▲									1/2	3/16	1/32	.2031				
WNUMG 433 EMX		WNUMG 080412N-MX			•	•	▲											3/64					

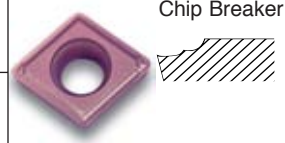
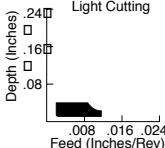
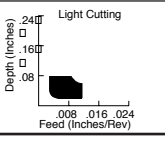
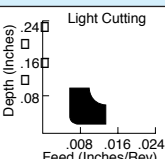
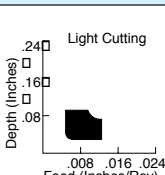
WNMA			Coated												Uncoated			Dimensions (Inches)				Insert Hole	
—			AC300G	AC500G	AC700G																Application		
Sumitomo Cat. No.		New ISO Cat. No.																					
WNMA 332		WNMA 060408					▲									3/8	3/16	1/32	.150				
WNMA 432		WNMA 080408					•	▲	•									1/32					
WNMA 433		WNMA 080412					•	▲	•							1/2	3/16	3/64	.2031				
WNMA 434		WNMA 080416					•											1/16					

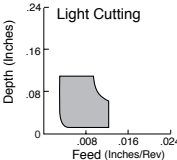


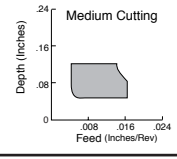
When machining steels or alloys with hardness above 45 HRC, use our high performance PCBN inserts found on pages 108-121.

Indexable Inserts

Indexable Inserts

General Info	■ 80° DIAMOND INSERTS • 7° Positive Inserts																
Negative Inserts	CCMT EFP		Cermet				Uncoated				Dimensions (Inches)			Insert Hole			
			T2000Z	T1200A	T130Z							Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
Positive Inserts	Sumitomo Cat. No.		New ISO Cat. No.														
	CCMT 21.51 EFP		CCMT 060204N-FP		•	•	•					1/4	3/32	1/64	.110		
	CCMT 32.51 EFP		CCMT 09T304N-FP		•	•	•					3/8	5/32	1/64	.1732		
	CCMT 32.52 EFP		CCMT 09T308N-FP		•	•	▲							1/32			
Ace-Fix Inserts	CCMT EFM		Coated				Cermet	Uncoated		Dimensions (Inches)			Insert Hole				
			AC2000							A30				Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.
Threading, Grooving, & Cut-Off Inserts	Sumitomo Cat. No.		New ISO Cat. No.														
	CCMT 21.51 EFM		CCMT 060204N-SC		★						★		1/4	3/32	1/64		.110
	CCMT 322 EFM		CCMT 090308N-SC		★						★		3/8	1/8	1/32		.1732
	CCMT 432 EFM		CCMT 120412N-SC		★								1/2	3/16	1/32		.2165
Ceramic Inserts	CCMT ESJ		Cermet				Uncoated				Dimensions (Inches)			Insert Hole			
				T1200A	T130Z									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.
PCBN & PCD Inserts	Sumitomo Cat. No.		New ISO Cat. No.														
	CCMT 21.51 ESJ		CCMT 060204N-SJ			•	▲					1/4	3/32	1/64	.110		
	CCMT 32.51 ESJ		CCMT 09T304N-SJ			•	▲					3/8	5/32	1/64	.1732		
	CCMT 32.52 ESJ		CCMT 09T308N-SJ			•	▲							1/32			
Toolholders	CCMT ENK		Coated				Cermet	Uncoated		Dimensions (Inches)			Insert Hole				
			AC2000	AC3000	AC300G	AC500G	AC700G							Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.
Swiss Toolholders	Sumitomo Cat. No.		New ISO Cat. No.														
	CCMT 21.51 ENK		CCMT 060204N-SK		•	•	•	•					1/4	3/32	1/64		.110
	CCMT 21.52 ENK		CCMT 060208N-SK		•	•	•	•						1/32			
	CCMT 32.51 ENK		CCMT 09T304N-SK		•	•	•	•					3/8	5/32	1/64		.1732
	CCMT 32.52 ENK		CCMT 09T308N-SK		•	•	▲	•						1/32			
	CCMT 431 ENK		CCMT 120404N-SK		•	•							1/2	3/16	1/64		.2165
Boring Bars	CCMT 432 ENK		CCMT 120408N-SK		•	•								1/32			
	● = USA stocked item ★ = Worldwide Warehouse item ▲ = USA limited availability item																
Technical Info																	

CCMT ESU		Coated								Cermet				Dimensions (Inches)				Insert Hole			
		AC2000	AC3000	AC700G	EH510Z	EH520Z				T2000Z	T3000Z	T1200A				Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
Sumitomo Cat. No.		New ISO Cat. No.																		Application	
CCMT 21.50.5 ESU		CCMT 060202N-SU		★	★						•	★	•				1/4	3/32	1/128	.110	
CCMT 21.51 ESU		CCMT 060204N-SU		•	★	•	•	•			•	★	•					1/64			
CCMT 21.52 ESU		CCMT 060208N-SU		•	★	•	•	•			•		•					1/32			
CCMT 32.50.5 ESU		CCMT 09T302N-SU		★	★						•	★						1/128			
CCMT 32.51 ESU		CCMT 09T304N-SU		•	★	•	•	•			•	★	•				3/8	5/32	1/64	.1732	
CCMT 32.52 ESU		CCMT 09T308N-SU		•	★	•	•	•			•		•					1/32			
CCMT 431 ESU		CCMT 120404N-SU		★	★												1/2	3/16	1/64	.2165	
CCMT 432 ESU		CCMT 120408N-SU		★	★													1/32			

CCMT EMU		Coated								Cermet				Dimensions (Inches)				Insert Hole			
		AC2000	AC3000	AC300G	AC700G											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
Sumitomo Cat. No.		New ISO Cat. No.																		Application	
CCMT 32.51 EMU		CCMT 09T304N-MU		★		★	★										3/8	5/32	1/64	.1732	
CCMT 32.52 EMU		CCMT 09T308N-MU		•	★	★	★											1/32			

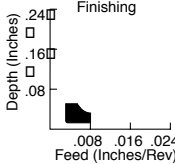
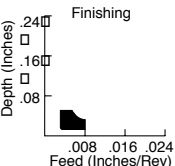
CCMA —		Coated								Cermet		Uncoated		Dimensions (Inches)				Insert Hole			
		AC300G	AC700G														Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.																		Application	
CCMA 21.51		CCMA 060204		★	★												1/4	3/32	1/64	.110	
CCMA 32.51		CCMA 09T304		★	★													1/64			
CCMA 32.52		CCMA 09T308		★	★												3/8	5/32	1/32	.1732	

Sumitomo products are
manufactured to be the best
in the industry. Top shelf
quality everytime.



Indexable Inserts

Indexable Inserts

General Info	CCGT			Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
	FX			ACZ310					T2000Z T1200A		EH10Z		Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Negative Inserts	Sumitomo Cat. No.		New ISO Cat. No.														Application
	CCGT21.5.001 RFX		CCGT 0602003R-FX		•				•			1/4	3/32	.0012	.110		
Positive Inserts	CCGT21.5.001 LFX		CCGT 0602003L-FX		•				•					1/256			
	CCGT 21.50 RFX		CCGT 060201R-FX		•				•					1/256			
	CCGT 21.50 LFX		CCGT 060201L-FX		•				•					1/128			
	CCGT 21.50.5 RFX		CCGT 060202R-FX		•				•	★				1/128			
	CCGT 21.50.5 LFX		CCGT 060202L-FX		•				★	•		1/64					
Ace-Fix Inserts	CCGT 21.51 RFX		CCGT 060204R-FX		★							3/8	5/32	1/64	.1732		
	CCGT 21.51 LFX		CCGT 060204L-FX		★				★					1/64			
	CCGT32.5.001 RFX		CCGT 09T3003R-FX		•				•					.0012			
	CCGT32.5.001 LFX		CCGT 09T3003L-FX		•				•					.0012			
	CCGT 32.50 RFX		CCGT 09T301R-FX		•				•					1/256			
Threading, Grooving, & Cut-Off Inserts	CCGT 32.50 LFX		CCGT 09T301L-FX		•				•			3/8	5/32	1/256	.1732		
	CCGT 32.50.5 RFX		CCGT 09T302R-FX		•				•					1/128			
	CCGT 32.50.5 LFX		CCGT 09T302L-FX		•				•					1/128			
	CCGT 32.51 RFX		CCGT 09T304R-FX		★				•					1/64			
	CCGT 32.52 RFX		CCGT 09T308R-FX								★			1/32			
Ceramic Inserts	CCGT 32.52 LFX		CCGT 09T308L-FX								★			1/32			
PCBN & PCD Inserts	CCGT			Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
	FZ			ACZ310								Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
Toolholders	Sumitomo Cat. No.		New ISO Cat. No.													Application	
	CCGT 21.5.001 RFZ		CCGT 0602003R-FZ		★						1/4	3/32	.0012	.110			
	CCGT 21.5.001 LFZ		CCGT 0602003L-FZ		★								1/256				
	CCGT 21.50 RFZ		CCGT 060201R-FZ		★								1/256				
	CCGT 21.50 LFZ		CCGT 060201L-FZ		★								1/128				
CCGT 21.50.5 RFZ		CCGT 060202R-FZ		★						1/128							
Swiss Toolholders	CCGT 21.50.5 LFZ		CCGT 060202L-FZ		★						3/8	5/32	1/128	.1732			
	CCGT 32.5.001 RFZ		CCGT 09T3003R-FZ		★								.0012				
	CCGT 32.5.001 LFZ		CCGT 09T3003L-FZ		★								.0012				
	CCGT 32.50 RFZ		CCGT 09T301R-FZ		★								1/256				
	CCGT 32.50 LFZ		CCGT 09T301L-FZ		★								1/256				
Boring Bars	CCGT 32.50.5 RFZ		CCGT 09T302R-FZ		★						3/8	5/32	1/128	.1732			
	CCGT 32.50.5 LFZ		CCGT 09T302L-FZ		★								1/128				
	CCGT 32.51 RFZ		CCGT 09T304R-FZ		★								1/64				
	CCGT 32.51 LFZ		CCGT 09T304L-FZ		★								1/64				

Indexable Inserts

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

Toolholders

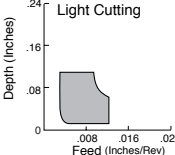
Swiss Toolholders

Boring Bars

Technical Info

ALMT

CPMT	Chip Breaker	Coated				Cermet	Uncoated	Dimensions (Inches)				Insert Hole	
		AC2000				T3000Z		Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application	
Sumitomo Cat. No.	New ISO Cat. No.												
CPMT 321 ELU	CPMT 090304N-LU	★				★		3/8	1/8	1/64	.1732		

CPMT		Chip Breaker	Coated						Cermet			Uncoated			Dimensions (Inches)				Insert Hole	
			AC2000	AC3000	AC700G	AC304	EH510Z	EH520Z	T2000Z	T3000Z	T1200A					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.																		
CPMT 21.51 ESU		CPMT 060204N-SU		•		•		•	•					1/4	3/32	1/64	.110		Light Cutting	
CPMT 21.52 ESU		CPMT 060208N-SU		•		•		•	•						3/32	1/32				
CPMT 2.51.51 ESU		CPMT 080204N-SU		•	★	★		★					5/16	3/32	1/64	.134				
CPMT 2.51.52 ESU		CPMT 080208N-SU		•	★	★		★	★	★				3/32	1/32					
CPMT 321 ESU		CPMT 090304N-SU		•	★	★		★	★	★			3/8	1/8	1/64	.1732				
CPMT 322 ESU		CPMT 090308N-SU		•	★	★		★	★	★				1/8	1/32					
CPMT 32.51 ESU		CPMT 09T304N-SU		•		•		•		•			3/8	5/32	1/64	.1732				
CPMT 32.52 ESU		CPMT 09T308N-SU		•		•		•		•					1/32					

CPMT	Chip Breaker	Coated				Cermet	Uncoated	Dimensions (Inches)				Insert Hole	
		AC2000	AC300G	AC700G				Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application	
Sumitomo Cat. No.	New ISO Cat. No.												
CPMT 2.51.51 EMU	CPMT 080204N-MU	★	★	★				5/16	3/32	1/64	.134		
CPMT 2.51.52 EMU	CPMT 080208N-MU	★	★	★				5/16	3/32	1/32	.134		
CPMT 321 EMU	CPMT 090304N-MU	★	★	★				3/8	1/8	1/64	.1732		
CPMT 322 EMU	CPMT 090308N-MU	★	★	★				3/8	1/8	1/32	.1732		

CPMA	No Breaker	Coated				Cermet	Uncoated	Dimensions (Inches)				Insert Hole	
		AC300G	AC700G					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application	
Sumitomo Cat. No.	New ISO Cat. No.												
CPMA 321	CPMA 090304	★	★					3/8	1/8	1/64	.1732		
CPMA 322	CPMA 090308	★	★					3/8	1/8	1/32	.1732		

- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

Indexable Inserts

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

Toolholders

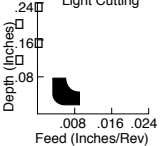
Swiss Toolholders

Boring Bars

Technical Info

ALMT

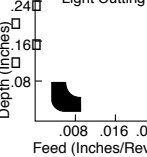
CPGT		Chip Breaker	Coated			Cermet			Uncoated		Dimensions (Inches)				Insert Hole			
																		
																	Application	
Sumitomo Cat. No.		New ISO Cat. No.																
CPGT 2.51.50.5		CPGT 080202N-SD			•	•	•											
CPGT 2.51.51		CPGT 080204N-SD						•	★	▲	•			★	5/16	3/32	1/64	.134
CPGT 2.51.52		CPGT 080208N-SD								▲	•						1/32	
CPGT 320.5		CPGT 090302N-SD									★						1/128	
CPGT 321		CPGT 090304N-SD						★	★				★	3/8	1/8		1/64	.1732
CPGT 322		CPGT 090308N-SD									★						1/32	
CPGT 430.5		CPGT 120402N-SD									★						1/128	
CPGT 431		CPGT 120404N-SD						★			★		★	1/2	3/16	1/64	.2165	
CPGT 432		CPGT 120408N-SD									★						1/32	



Depth (Inches)

Feed (Inches/Rev)

Light Cutting

CPGM		Chip Breaker	Coated				Cermet	Uncoated	Dimensions (Inches)				Insert Hole						
																			
Sumitomo Cat. No.		New ISO Cat. No.				EH10Z			T2000Z	T130Z	T110A	T1200A			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
CPGM 320.5		CPGH 090302N-SD				•			•	▲		•			3/8	1/8	1/128	.1732	
CPGM 321		CPGH 090304N-SD							•	▲	▲	•				1/64			
CPGM 322		CPGH 090308N-SD							•		▲	•				1/32			
CPGM 430.5		CPGH 120402N-SD														1/128	.2165		
CPGM 431		CPGH 120404N-SD							•			•			1/2	3/16		1/64	
CPGM 432		CPGH 120408N-SD										•				1/32			

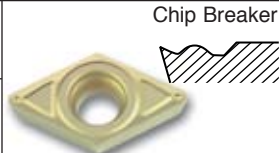
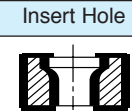
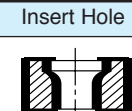
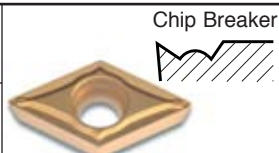
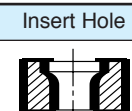
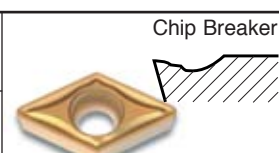
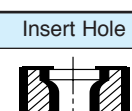
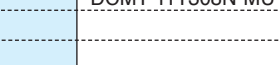
DIAMOND 55° INSERTS

7° Positive Inserts

DCMT	Chip Breaker	Cermet				Uncoated				Dimensions (Inches)				Insert Hole	
		T1200A	T130Z							Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application	
Sumitomo Cat. No.	New ISO Cat. No.														
DCMT 21.50.5 EFP	DCMT 070202N-FP	•	•	•	•	•	•	•	•	1/4	3/32	1/64	.110		
DCMT 21.51 EFP	DCMT 070204N-FP	•	•	•	•	•	•	•	•	1/4	3/32	1/64	.110		
DCMT 32.51 EFP	DCMT 11T304N-FP	•	•	•	•	•	•	•	•	3/8	5/32	1/64	.1732		
DCMT 32.52EFP	DCMT 11T308N-FP	•	•	•	•	•	•	•	•	3/8	5/32	1/32	.1732		

DCMT	Chip Breaker	Cermet				Uncoated				Dimensions (Inches)				Insert Hole	
		T1200A	T130Z							Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application	
Sumitomo Cat. No.	New ISO Cat. No.														
DCMT 21.51 ESJ	DCMT 070204N-SJ	•	•	•	•	•	•	•	•	1/4	3/32	1/64	.110		
DCMT 32.51 ESJ	DCMT 11T304N-SJ	•	•	•	•	•	•	•	•	3/8	5/32	1/64	.1732		
DCMT 32.52 ESJ	DCMT 11T308N-SJ	•	•	•	•	•	•	•	•	3/8	5/32	1/32	.1732		

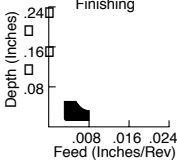
Indexable Inserts

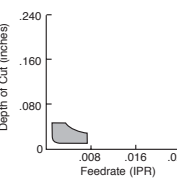
General Info	DCMT			Coated				Uncoated				Dimensions (Inches)				Insert Hole				
	ENK			AC2000	AC3000									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
	Sumitomo Cat. No.		New ISO Cat. No.																Application	
	DCMT 21.51 ENK		DCMT 070204N-SK		•	•								1/4	3/32	1/64	.110			
DCMT 32.51 ENK		DCMT 11T304N-SK		•	•									3/8	5/32	1/64	.1732			
DCMT 32.52 ENK		DCMT 11T308N-SK		•	•											1/32				
Negative Inserts																				
Positive Inserts	DCMT			Coated				Cermet	Uncoated			Dimensions (Inches)				Insert Hole				
	ELU			AC2000											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
	Sumitomo Cat. No.		New ISO Cat. No.																	Application
	DCMT 21.51 ELU		DCMT 070204N-LU		★						★					1/4	3/32	1/64		
DCMT 32.51 ELU		DCMT 11T304N-LU		★						★					3/8	5/32	1/64	.1732		
DCMT 32.52 ELU		DCMT 11T308N-LU		★						★							1/32			
Ace-Fix Inserts																				
Threading, Grooving, & Cut-Off Inserts	DCMT			Coated				Cermet			Dimensions (Inches)				Insert Hole					
	ESU			AC2000	AC3000	AC700G	EH510Z	EH520Z							Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
	Sumitomo Cat. No.		New ISO Cat. No.																	Application
	DCMT 21.50.5 ESU		DCMT 070202N-SU		•	★		•	•			•	★	•				1/128		
DCMT 21.51 ESU		DCMT 070204N-SU		•	★		•	•			•	★	•			1/4	3/32	1/64	.110	
DCMT 21.52 ESU		DCMT 070208N-SU		•	★		•	•			•	★	•					1/32		
DCMT 32.50.5 ESU		DCMT 11T302N-SU		★	★		•	•			•	★	★					1/128		
DCMT 32.51 ESU		DCMT 11T304N-SU		•	★		•	•			•	★	•			3/8	5/32	1/64	.1732	
DCMT 32.52 ESU		DCMT 11T308N-SU		•	★		•	•			•	★	•					1/32		
Ceramic Inserts																				
PCBN & PCD Inserts	DCMT			Coated				Uncoated			Dimensions (Inches)				Insert Hole					
	EMU			AC2000	AC3000	AC300G	AC700G								Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
	Sumitomo Cat. No.		New ISO Cat. No.																	Application
	DCMT 32.51 EMU		DCMT 11T304N-MU		•	★		★								3/8	5/32	1/64		
DCMT 32.52 EMU		DCMT 11T308N-MU		•	★	★	•										1/32			
Toolholders																				
Swiss Toolholders	DCMT			Coated				Uncoated			Dimensions (Inches)				Insert Hole					
	EMU			AC2000	AC3000	AC300G	AC700G								Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
	Sumitomo Cat. No.		New ISO Cat. No.																	Application
	DCMT 32.51 EMU		DCMT 11T304N-MU		•	★		★								3/8	5/32	1/64		
DCMT 32.52 EMU		DCMT 11T308N-MU		•	★	★	•										1/32			
Boring Bars																				

• = USA stocked item
★ = Worldwide Warehouse item
▲ = USA limited availability item

Indexable Inserts

DCMA			Coated								Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
			AC300G	AC700G											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application
Sumitomo Cat. No.		New ISO Cat. No.		★	★									1/4	3/32	1/64	.110			
DCMA 21.51		DCMA 070204		★	★											1/32				
DCMA 21.52		DCMA 070208		★	★															
DCMA 32.51		DCMA 11T304		★	★									3/8	5/32	1/64	.1732			
DCMA 32.52		DCMA 11T308		★	★											1/32				

DCGT			Coated								Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
			ACZ310								T1200A					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.		•						•				1/4	3/32	.0012	.110			
DCGT 21.5.001 RFX		DCGT 0702003R-FX		•						•						.0012				
DCGT 21.5.001 LFX		DCGT 0702003L-FX		•						•						.0012				
DCGT 21.50 RFX		DCGT 070201R-FX		•						•						1/256				
DCGT 21.50 LFX		DCGT 070201L-FX		•						•				1/256						
DCGT 21.50.5 RFX		DCGT 070202R-FX		•						•				1/128						
DCGT 21.50.5 LFX		DCGT 070202L-FX		•						•				1/128						
DCGT 32.5.001 RFX		DCGT 11T3003R-FX		•						•				.0012						
DCGT 32.5.001 LFX		DCGT 11T3003L-FX		•						•				.0012						
DCGT 32.50 RFX		DCGT 11T301R-FX		•						•				1/256						
DCGT 32.50 LFX		DCGT 11T301L-FX		•						•				1/256						
DCGT 32.50.5 RFX		DCGT 11T302R-FX		•						•				1/128						
DCGT 32.50.5 LFX		DCGT 11T302L-FX		•						•				1/128						

DCGT			Coated								Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
			ACZ310												Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application
Sumitomo Cat. No.		New ISO Cat. No.		★										1/4	3/32	.0012	.110			
DCGT 21.5.001 RFY		DCGT 0702003R-FY		★												.0012				
DCGT 21.5.001 LFY		DCGT 0702003L-FY		★												.0012				
DCGT 21.50 RFY		DCGT 070201R-FY		★												1/256				
DCGT 21.50.5 LFY		DCGT 070202L-FY		★										1/128						
DCGT 21.51 RFY		DCGT 070204R-FY		★										1/64						
DCGT 21.51 LFY		DCGT 070204L-FY		★										1/64						
DCGT 32.5.001 RFY		DCGT 11T3003R-FY		★										.0012						
DCGT 32.5.001 LFY		DCGT 11T3003L-FY		★										.0012						
DCGT 32.50 LFY		DCGT 11T301L-FY		★										1/256						
DCGT 32.50.5 RFY		DCGT 11T302R-FY		★										1/128						
DCGT 32.51 LFY		DCGT 11T304L-FY		★										1/64						

Indexable Inserts

General Info	DCGT		Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)		Insert Hole	
	W										Inscribed Circle		Application	
Negative Inserts	Sumitomo Cat. No.		New ISO Cat. No.								Inscribed Circle		Application	
	DCGT 21.50.5 R		DCGT 070202R-W								1/4		Light Cutting	
Positive Inserts	DCGT 21.50.5 L		DCGT 070202L-W								3/32			
	DCGT 21.51 R		DCGT 070204R-W								1/64			
	DCGT 21.51 L		DCGT 070204L-W								1/64			
	DCGT 32.51 R		DCGT 11T304R-W								1/64			
	DCGT 32.51 L		DCGT 11T304L-W								1/64			
	DCGT 32.52 R		DCGT 11T308R-W								1/32			
	DCGT 32.52 L		DCGT 11T308L-W								1/32			

Ace-Fix Inserts	DCGT		Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)		Insert Hole	
	EFM										Inscribed Circle		Application	
Threading, Grooving, & Cut-Off Inserts	Sumitomo Cat. No.		New ISO Cat. No.								Inscribed Circle		Application	
	DCGT 21.5.001 EFM		DCGT 0702003N-SC								1/4		Light Cutting	
Ceramic Inserts	DCGT 21.50 EFM		DCGT 070201N-SC								3/32			
	DCGT 21.50.5 EFM		DCGT 070202N-SC								1/128			
	DCGT 21.51 EFM		DCGT 070204N-SC								1/64			
	DCGT 21.52 EFM		DCGT 070208N-SC								1/32			
	DCGT 2.51.50 EFM		DCGT 090201N-SC								5/16			
	DCGT 2.51.50.5 EFM		DCGT 090202N-SC								1/128			
PCBN & PCD Inserts	DCGT 32.5.001 EFM		DCGT 11T3003N-SC								1/4		Light Cutting	
	DCGT 32.50 EFM		DCGT 11T301N-SC								3/32			
	DCGT 32.50.5 EFM		DCGT 11T302N-SC								1/128			
	DCGT 32.51 EFM		DCGT 11T304N-SC								1/64			
	DCGT 32.52 EFM		DCGT 11T308N-SC								1/32			

Toolholders	DCGT		Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)		Insert Hole	
	NAG										Inscribed Circle		Application	
Swiss Toolholders	Sumitomo Cat. No.		New ISO Cat. No.								Inscribed Circle		Application	
	DCGT 21.50.5 NAG		DCGT 070202N-AG								1/4		Light Cutting	
Boring Bars	DCGT 21.51 NAG		DCGT 070204N-AG								3/32			
	DCGT 32.50.5 NAG		DCGT 11T302N-AG								1/128			
	DCGT 32.51 NAG		DCGT 11T304N-AG								1/64			
	DCGT 32.52 NAG		DCGT 11T308N-AG								1/32			

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Technical Info	DCGT		Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)		Insert Hole	
	FY										Inscribed Circle		Application	
ALMT	Sumitomo Cat. No.		New ISO Cat. No.								Inscribed Circle		Application	
	DPGT 21.50 RFX		DPGT 070201R-FX								1/4		Light Cutting	
Boring Bars	DPGT 21.50 LFX		DPGT 070201L-FX								3/32			
	DPGT 21.50.5 RFX		DPGT 070202R-FX								1/128			
	DPGT 21.50.5 LFX		DPGT 070202L-FX								1/128			
	DPGT 32.50 RFX		DPGT 11T301R-FX								1/256			
Technical Info	DPGT 32.50 LFX		DPGT 11T301L-FX								1/256			
	DPGT 32.50.5 RFX		DPGT 11T302R-FX								1/128			
	DPGT 32.50.5 LFX		DPGT 11T302L-FX								1/128			

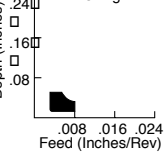
Indexable Inserts

General Info	DCGD		No Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)		Insert Hole	
	—										Inscribed Circle		Application	
Negative Inserts	Sumitomo Cat. No.		New ISO Cat. No.								Inscribed Circle		Application	
	DCGD 21.5V		DCGW 070200								1/4		Light Cutting	
Positive Inserts	DCGD 21.50		DCGW 070201								3/32			
	DCGD 2.51.5V		DCGW 090200								5/16			
	DCGD 2.51.50		DCGW 090201								1/256			

55° DIAMOND INSERTS

11° Positive Inserts

General Info	DPMT		Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)		Insert Hole	
	ESU										Inscribed Circle		Application	
Threading, Grooving, & Cut-Off Inserts	Sumitomo Cat. No.		New ISO Cat. No.								Inscribed Circle		Application	
	DPMT 21.51 ESU		DCMT 070204N-SU								1/4		Light Cutting	
Ceramic Inserts	DPMT 32.51 ESU		DCMT 11T304N-SU								3/8			
	DPMT 32.52 ESU		DCMT 11T308N-SU								1/32			

DPGT			Coated						Cermet		Uncoated		Dimensions (Inches)				Insert Hole													
FX				ACZ310									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.														
Sumitomo Cat. No.		New ISO Cat. No.															Application													
DPGT 21.50 RFX	DPGT 070201R-FX	★																								1/4	3/32	1/256 1/256 1/128 1/128	.110	
DPGT 21.50 LFX	DPGT 070201L-FX	★																												
DPGT 21.50.5 RFX	DPGT 070202R-FX	★																												
DPGT 21.50.5 LFX	DPGT 070202L-FX	★																												
DPGT 32.50 RFX	DPGT 11T301R-FX	★																							3/8	5/32	1/256 1/256 1/128 1/128	.1732		
DPGT 32.50 LFX	DPGT 11T301L-FX	★																												
DPGT 32.50.5 RFX	DPGT 11T302R-FX	★																												
DPGT 32.50.5 LFX	DPGT 11T302L-FX	★																												

RCMX RP			Coated							Uncoated				Dimensions (Inches)				Insert Hole
			AC700G	AC2000	AC3000	AC300G				A30					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.
Sumitomo Cat. No.		New ISO Cat. No.																
RCMX 100300		RCMX 1003MON-RP	•	•	•	•				★					.394	1/8		.1417
RCMX 120400		RCMX 1204MON-RP	•	•	•	•									.472	3/16		.1654
RCMX 160600		RCMX 1606MON-RP	•	•	•	•				★					.630	1/4		.2047
RCMX 200600		RCMX 2006MON-RP	•	•	•					★					.787	1/4		.2559

SCMT			Cermat										Uncoated				Dimensions (Inches)				Insert Hole		
																	Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
EFP																				Application			
Sumitomo Cat. No.		New ISO Cat. No.		T1200A		T130Z																	
SCMT 32.51 EFP		SCMT 09T304N-FP		•		▲													3/8	5/32	1/64	1732	
SCMT 32.52 EFP		SCMT 09T308N-FP		•		•															1/32		

SCMT			Cermat								Uncoated				Dimensions (Inches)				Insert Hole	
ESJ			T2000Z	T1200A	T130Z							Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.					
Sumitomo Cat. No.			New ISO Cat. No.													Application				
SCMT 32.51 ESJ	SCMT 09T304N-SJ		•	•	•									1/64		Light Cutting				
SCMT 32.52 ESJ	SCMT 09T308N-SJ		•	•	▲							3/8	5/32	1/32	1732					

SCMT ENK			Coated					Cermet	Uncoated	Dimensions (Inches)				Insert Hole		
			AC2000	AC3000	AC300G	AC500G	AC700G			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application	
Sumitomo Cat. No.		New ISO Cat. No.														
SCMT 32.51 ENK	SCMT 09T304N-SK	• •								3/8	5/32	1/64	1732		Light Cutting	
SCMT 32.52 ENK	SCMT 09T308N-SK	• • ▲ •										1/32				
SCMT 431 ENK	SCMT 120404N-SK	★ •										1/64				
SCMT 432 ENK	SCMT 120408N-SK	★ •								1/2	3/16	1/32	2165			
SCMT 433 ENK	SCMT 120412N-SK	★ •										3/64				

[illegible]

SCMT EMU		 Chip Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
			AC2000	AC300G	AC700G							Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	 Application
Sumitomo Cat. No.		New ISO Cat. No.														 Medium Cutting
SCMT 32.52 EMU		SCMT 09T308N-MU	★ ★									3/8	5/32	1/32	1/32	
SCMT 432 EMU		SCMT 120408N-MU	★ ★ ★									1/2	3/16	1/32	21/65	

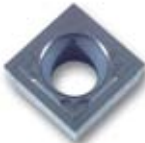
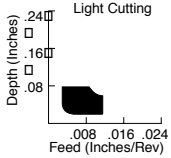
SCMA		 Chip Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole			
—			AC700G									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application	
Sumitomo Cat. No.		New ISO Cat. No.																
SCMA 32.52		SCMA 09T308		★								3/8	5/32	1/32	1732	—		
SCMA 432		SCMA 120408		★								1/2	3/16	1/32	2165			
SCMA 433		SCMA 120412	★								3/64							

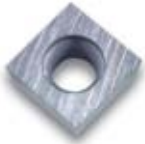
SCGT			Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
FX			ACZ310									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.														Application
SCGT 32.50.5 RFX		SCGT 09T302R-FX		★								3/8	5/32	1/128	.1732	
SCGT 32.50.5 LFX		SCGT 09T302L-FX		★										1/128		
SCGT 32.51 RFX		SCGT 09T304R-FX		★										1/64		
SCGT 32.51 LFX		SCGT 09T304L-FX	★								1/64					

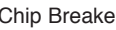
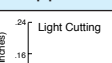
- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

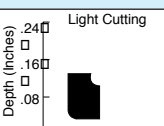
Indexable Inserts

Indexable Inserts

General Info	SCGT		 	Coated					Cermet	Uncoated	Dimensions (Inches)				Insert Hole
	EFM			ACZ310						T1200A			Inscribed Circle	Thickness	Nose Radius
Negative Inserts	Sumitomo Cat. No.		New ISO Cat. No.												
	SCGT 2.51.50 EFM		SCGT 070201N-SC		3/8	5/32	1/256	.1732							
Positive Inserts	SCGT 2.51.50.5 EFM		SCGT 070202N-SC							5/16	3/32	1/256	.134	Application	
	SCGT 32.50 EFM		SCGT 09T301N-SC		3/8	5/32	1/256	.1732	Application						
	SCGT 32.50.5 EFM		SCGT 09T302N-SC							5/16	3/32	1/256	.134	Application	

Ace-Fix Inserts	SCGD SCGA		 	Coated					Cermet	Uncoated	Dimensions (Inches)				Insert Hole
	—										H2	Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.
Threading, Grooving, & Cut-Off Inserts	Sumitomo Cat. No.		New ISO Cat. No.												
	SCGD 2.51.5V		SCGW 070200		3/8	5/32	1/512	.1732	Application						
	SCGD 2.51.50		SCGW 070201							3/8	5/32	1/512	.1732	Application	
	SCGA 32.5V		SCGW 09T300		3/8	5/32	1/512	.1732	Application						
	SCGA 32.50		SCGW 09T301							3/8	5/32	1/512	.1732	Application	

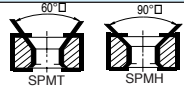
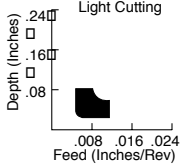
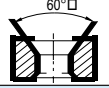
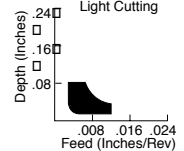
SPMT			Coated				Cermet	Uncoated	Dimensions (Inches)				Insert Hole		
											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
ELU							T3000Z								Application
Sumitomo Cat. No.	New ISO Cat. No.														
SPMT 321 ELU	SPMT 090304N-LU						★					3/8	1/8	1/64	.130

SPMT			Chip Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
ENF													Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.			New ISO Cat. No.		AC2000	AC3000											Application
SPMT 321 ENF			SPMT 090304N-SF		•	•											
SPMT 322 ENF			SPMT 090308N-SF		•	•											

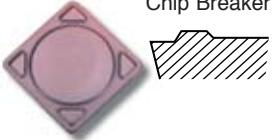
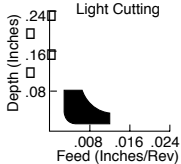
SPGG			Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)				Insert Hole		
SD											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
Sumitomo Cat. No.		New ISO Cat. No.					T2000Z	T3000Z	T130Z	T1200A	T110A		G10E			Application	
SPGG 320.5 L		SPGT 090302L-SD					★								3/8	1/8	1/128
SPGG 321 R		SPGT 090304R-SD											★				1/64
SPGG 321 L		SPGT 090304L-SD					★	★	▲	•	▲		▲				1/64
SPGG 322 R		SPGT 090308R-SD								★							1/32
SPGG 322 L		SPGT 090308L-SD					•	★		•			▲				1/32

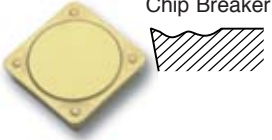
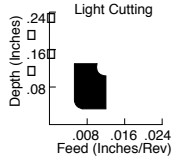
SPGA		Coated				Cermet				Uncoated			Dimensions (Inches)				Insert Hole		
						T130Z	T1200A			G10E				Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
—		Sumitomo Cat. No.	New ISO Cat. No.															Application	
SPGA 321						▲	•			★				3/8	1/8	1/64	.130		
SPGA 322																1/32			

• = USA stocked item
★ = Worldwide Warehouse item
▲ = USA limited availability item

Inserts		■ 90° SQUARE INSERTS																
		• 11° Positive Inserts																
PCBN & PCD Inserts	SPMT			Chip Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
	ENS																	
Toolholders	Sumitomo Cat. No.			New ISO Cat. No.			AC2000											Application
	SPMT 21.51 ENS			SPMT 060204N-US			•											
	SPMT 2.51.52 ENS			SPMT 070208N-US						▲								
	SPMT 2.522 ENS			SPMT 070308N-US														
	SPMT 322 ENS			SPMT 090308N-US														
SPMT 32.52 ENX			SPMT 09T308N-US						•									
Swiss Toolholders	SPMT 432 ENS			SPMT 120408N-US						•								
	SPMT 532 ENS			SPMT 150408N-US						•								
Boring Bars	SPMT			Chip Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
	EFK																	
Technical Info	Sumitomo Cat. No.			New ISO Cat. No.														Application
	SPMT 321 EFK			SPMT 090304N-FK														
	SPMT 322 EFK			SPMT 090308N-FK														

Indexable Inserts

General Info	SPMR EFK 	Chip Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
Negative Inserts											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application
Positive Inserts			Sumitomo Cat. No.	New ISO Cat. No.				T2000Z	T1200A	T130Z						
	SPMR 321 EFK	SPMR 090304N-FK						•				3/8	1/8	1/64		
	SPMR 322 EFK	SPMR 090308N-FK						•						1/32		
	SPMR 421 EFK	SPMR 120304N-FK						•						1/64		
	SPMR 422 EFK	SPMR 120308N-FK						•	▲			1/2	1/8	1/32		
	SPMR 423 EFK	SPMR 120312N-FK						•						3/64		

Ace-Fix Inserts	SPMR ENF 	Chip Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
Threading, Grooving, & Cut-Off Inserts											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application
Ceramic Inserts			Sumitomo Cat. No.	New ISO Cat. No.				AC2000	AC3000							
	SPMR 321 ENF	SPMR 090304N-SF		•	•							3/8	1/8	1/64		
	SPMR 322 ENF	SPMR 090308N-SF		•	•									1/32		
	SPMR 421 ENF	SPMR 120304N-SF		•	•									1/64		
	SPMR 422 ENF	SPMR 120308N-SF		•	•							1/2	1/8	1/32		
	SPMR 423 ENF	SPMR 120312N-SF		•	•									3/64		

PCBN & PCD Inserts	SPMN — 	No Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole	
Toolholders											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application
Swiss Toolholders			Sumitomo Cat. No.	New ISO Cat. No.				AC325	AC300G	AC500G	AC700G	T1200A	ST20E	ST30E	A30	G10E
	SPMN 321	SPMN 090304			★	▲									★	
	SPMN 322	SPMN 090308			•	▲	•		★						★	
	SPMN 421	SPMN 120304			★	▲	★								★	
	SPMN 422	SPMN 120308			•	★	▲		★						★	
	SPMN 423	SPMN 120312							★						★	
	SPMN 424	SPMN 120316			▲										★	
	SPMN 434	SPMN 120416													★	
	SPMN 532	SPMN 150408													★	
	SPMN 533	SPMN 150412			▲										★	
	SPMN 631	SPMN 190404													★	
	SPMN 632	SPMN 190408													★	
	SPMN 633	SPMN 190412			▲										★	
	SPMN 634	SPMN 190416													★	

• = USA stocked item

★ = Worldwide Warehouse item

▲ = USA limited availability item

ALMT

Sumitomo Electric Carbide, Inc.

74

Indexable Inserts

SPG			Coated				Cermet				Uncoated		Dimensions (Inches)				Insert Hole
	—												Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	—
Sumitomo Cat. No.		New ISO Cat. No.	AC2000	AC325	AC720	EH10Z	EH20Z	T2000Z	T1200A	T110A	T130Z		ST30E		G10E		Application
SPG 321	SPGN 090304							•	•							1/64	—
SPG 322	SPGN 090308			▲				•	•	▲	▲					1/32	
SPG 323	SPGN 090312			▲					▲						▲	3/64	
SPG 421	SPGN 120304							•	•	▲						1/64	
SPG 422	SPGN 120308		•	▲		•	•	•	•	▲					▲	1/32	
SPG 423	SPGN 120312		•	▲		▲	▲		▲	▲					▲	3/64	
SPG 424	SPGN 120316			▲		•	•	•					▲		▲	1/16	
SPG 431	SPGN 120404												▲			1/64	
SPG 432	SPGN 120408		•	•			▲	•	•	▲			▲			1/32	
SPG 433	SPGN 120412		•	•		▲	▲		•							3/64	
SPG 434	SPGN 120416			▲												1/16	
SPG 532	SPGN 150408															1/32	
SPG 533	SPGN 150412														▲	3/64	
SPG 534	SPGN 150416															1/16	
SPG 631	SPGN 190404															1/64	
SPG 632	SPGN 190408		•		▲											1/32	
SPG 633	SPGN 190412		•					•								3/64	
SPG 634	SPGN 190416		•				▲			▲					▲	1/16	

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

Toolholders

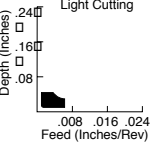
Swiss Toolholders

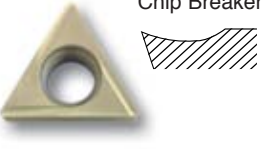
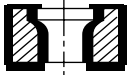
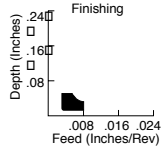
Boring Bars

Technical Info

ALMT

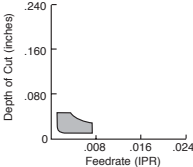
60° TRIANGLE INSERTS
5° Positive Inserts

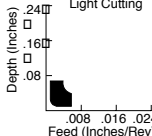
TBGT			Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole
	FW										Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.													
TBGT 520.5 RFW	TBGT 060102R-FW							•	•	▲				1/128	
TBGT 520.5 LFW	TBGT 060102L-FW							•	•	▲				1/128	
TBGT 521 RFW	TBGT 060104R-FW							•	•	▲				1/64	
TBGT 521 LFW	TBGT 060104L-FW							•	•	▲				1/64	

TBGT			Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole
	FX										Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.	AC2000	ACZ310	AC325	EH10Z									
TBGT 520.5 RFX	TBGT 060102R-FX		•	★	▲	▲								1/128	
TBGT 520.5 LFX	TBGT 060102L-FX		•	★	▲	▲								1/128	
TBGT 521 RFX	TBGT 060104R-FX		•	★	▲	▲								1/64	
TBGT 521 LFX	TBGT 060104L-FX		•	★	▲	▲								1/64	

Indexable Inserts

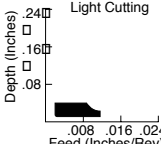
Indexable Inserts

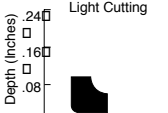
General Info	TBGT			Chip Breaker	Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole			
	FY				ACZ310						T1200A					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
																				Application
Negative Inserts	Sumitomo Cat. No.		New ISO Cat. No.																	
Positive Inserts	TBGT 520 RFY		TBGT 060101R-FY		★										5/32	1/16	1/256	.090		
	TBGT 520 LFY		TBGT 060101L-FY		★									1/256						
	TBGT 520.5 RFY		TBGT 060102R-FY		★					★				1/128						
	TBGT 520.5 LFY		TBGT 060102L-FY		★									1/128						
	TBGT 521 RFY		TBGT 060104R-FY		★					★				1/64						
	TBGT 521 LFY		TBGT 060104L-FY		★					★							1/64			

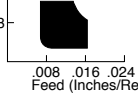
Ace-Fix Inserts	TBGT			Chip Breaker		Coated				Cermet				Uncoated				Dimensions (Inches)				Insert Hole		
	W	Sumitomo Cat. No.		New ISO Cat. No.	AC2000	ACZ310				T2000Z	T3000Z	T110A	T1200A	T130Z		G10E		Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.			
																						Application		
Threading, Grooving, & Cut-Off Inserts																								
	TBGT 520.5 R		TBGT 060102R-W		★				●				▲				5/32				1/128		.090	
	TBGT 520.5 L		TBGT 060102L-W		●				★				●				1/16				1/128			
	TBGT 521 R		TBGT 060104R-W		★				●				●				1/64				1/64			
TBGT 521 L		TBGT 060104L-W		●				●				▲				1/64				1/64				
Ceramic Inserts																								

60° TRIANGLE INSERTS

7° Positive Inserts

PCD Inserts	TCMT			Cermet				Uncoated				Dimensions (Inches)				Insert Hole		
	EFP				T2000Z	T1200A	T130Z						Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
Toolholders	Sumitomo Cat. No.		New ISO Cat. No.														Application	
Swiss Toolholders	TCMT 21.51 EFP		TCMT 110204N-FP		•	•	▲							1/4	3/32	1/64	.110	
	TCMT 21.52 EFP		TCMT 110208N-FP		•	•	▲								1/32			
	TCMT 32.51 EFP		TCMT 16T304N-FP		•	•	▲								1/64			
	TCMT 32.52 EFP		TCMT 16T308N-FP		•	•	▲								1/32	.1693		

Boring Bars	TCMT			Chip Breaker 	Cermet				Uncoated				Dimensions (Inches)				Insert Hole		
	ESJ														Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Technical Info	Sumitomo Cat. No.		New ISO Cat. No.		T2000Z	T1200A	T130Z												Application
	TCMT 21.51 ESJ		TCMT 110204N-SJ		•	•	▲												
	TCMT 21.52 ESJ		TCMT 110208N-SJ		•	•	▲												
	TCMT 32.51 ESJ		TCMT 16T304N-SJ		•	•	▲												
	TCMT 32.52 ESJ		TCMT 16T308N-SJ		•	•	▲												

TCMT			Chip Breaker		Coated					Uncoated					Dimensions (Inches)				Insert Hole			
ENK								AC2000	AC3000	AC300G	AC500G	AC700G						Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
Sumitomo Cat. No.		New ISO Cat. No.																			Application	
TCMT 21.51 ENK		TCMT 110204N-SK			•	•	•	▲	•								1/4	3/32	1/64	.110	 Depth (inches) Light Cutting	
TCMT 21.52 ENK		TCMT 110208N-SK			•	•	•	▲	•								1/4	3/32	1/32			
TCMT 32.51 ENK		TCMT 16T304N-SK			•	•	•	▲	•										1/64			
TCMT 32.52 ENK		TCMT 16T308N-SK			•	•	•	▲	•								3/8	5/32	1/32	.1693		
TCMT 32.53 ENK		TCMT 16T312N-SK			★														3/64			

Indexable Inserts

Indexable Inserts

General Info	TCGT	Chip Breaker	Coated	Cermet	Uncoated	Dimensions (Inches)	Insert Hole
Negative Inserts	FY					Inscribed Circle Thickness Nose Radius Insert Hole Dia.	
Positive Inserts	Sumitomo Cat. No.	New ISO Cat. No.	ACZ310				Application
	TCGT 21.50 RFY	TCGT 110201R-FY	★			1/4 3/32	1/256
	TCGT 21.50 LFY	TCGT 110201L-FY	★				1/256
	TCGT 21.50.5 RFY	TCGT 110202R-FY	★				1/128
	TCGT 21.50.5 LFY	TCGT 110202L-FY	★				1/128
							Depth of Cut (inches) Feedrate (IPR)
Ace-Fix Inserts	TCGT	Chip Breaker	Coated	Cermet	Uncoated	Dimensions (Inches)	Insert Hole
	EFM					Inscribed Circle Thickness Nose Radius Insert Hole Dia.	
Threading, Grooving, & Cut-Off Inserts	Sumitomo Cat. No.	New ISO Cat. No.	ACZ310	T2000Z T1200A			Application
	TCGT 630 EFM	TCGT 080201N-SC	★	★		3/16 3/32	1/256
	TCGT 630.5 EFM	TCGT 080202N-SC	★	★			1/128
	TCGT 1.81.50 EFM	TCGT 090201N-SC	★	★		7/32 3/32	1/256
	TCGT 1.81.50.5 EFM	TCGT 090202N-SC	★	•			1/128
	TCGT 21.50 EFM	TCGT 110201N-SC	★	•		1/4 3/32	1/256
	TCGT 21.50.5 EFM	TCGT 110202N-SC	★	•			1/128
							Depth of Cut (inches) Feed (Inches/Rev)
Ceramic Inserts	TCGD	No Breaker	Coated	Cermet	Uncoated	Dimensions (Inches)	Insert Hole
PCBN & PCD Inserts	—					Inscribed Circle Thickness Nose Radius Insert Hole Dia.	
Toolholders	Sumitomo Cat. No.	New ISO Cat. No.			H2		Application
	TCGD 63V	TCGW 080200			▲	3/16 3/32	1/512
	TCGD 630	TCGW 080201					1/256
	TCGD 1.81.5V	TCGW 090200				7/32 3/32	1/512
	TCGD 1.81.50	TCGW 090201					1/256
							Depth of Cut (inches) Feed (Inches/Rev)
Swiss Toolholders	TCGA	No Breaker	Coated	Cermet	Uncoated	Dimensions (Inches)	Insert Hole
Boring Bars	—					Inscribed Circle Thickness Nose Radius Insert Hole Dia.	
	Sumitomo Cat. No.	New ISO Cat. No.			H2		Application
	TCGA 21.5V	TCGW 110200			▲	1/4 3/32	1/512
	TCGA 21.50	TCGW 110201					1/256
							Depth of Cut (inches) Feed (Inches/Rev)
Technical Info	• = USA stocked item ★ = Worldwide Warehouse item ▲ = USA limited availability item						

60° TRIANGLE INSERTS

11° Positive Inserts

General Info	TPMT	Chip Breaker	Coated	Cermet	Uncoated	Dimensions (Inches)	Insert Hole
Negative Inserts	EFK					Inscribed Circle Thickness Nose Radius Insert Hole Dia.	
Positive Inserts	Sumitomo Cat. No.	New ISO Cat. No.		T2000Z T110A T1200A T130Z			Application
	TPMT 221 EFK	TPMT 110304N-FK		•		1/4 1/8	1/64
	TPMT 222 EFK	TPMT 110308N-FK		•			1/32
	TPMT 331 EFK	TPMT 160404N-FK		▲		3/8 3/16	1/64
	TPMT 332 EFK	TPMT 160408N-FK		•			1/32
							Depth of Cut (inches) Feed (Inches/Rev)
Ace-Fix Inserts	TPMT	Chip Breaker	Coated	Cermet	Uncoated	Dimensions (Inches)	Insert Hole
	ELU					Inscribed Circle Thickness Nose Radius Insert Hole Dia.	
Threading, Grooving, & Cut-Off Inserts	Sumitomo Cat. No.	New ISO Cat. No.	AC2000	T3000Z			Application
	TPMT 221 ELU	TPMT 110304N-LU	★	★		1/4 1/8	1/64
	TPMT 222 ELU	TPMT 110308N-LU	★	★			1/32
							Depth of Cut (inches) Feed (Inches/Rev)
Ceramic Inserts	TPMT	Chip Breaker	Coated	Cermet	Uncoated	Dimensions (Inches)	Insert Hole
PCBN & PCD Inserts	ESU					Inscribed Circle Thickness Nose Radius Insert Hole Dia.	
Toolholders	Sumitomo Cat. No.	New ISO Cat. No.	AC2000 AC3000 AC304 AC700G EH510Z EH520Z	T2000Z T3000Z T1200A			Application
	TPMT 1.81.50.5 ESU	TPMT 090202N-SU	•	•		7/32 3/32	1/128
	TPMT 1.81.51 ESU	TPMT 090204N-SU	•	•			1/64
	TPMT 21.50.5 ESU	TPMT 110202N-SU	•	•		1/4 3/32	1/128
	TPMT 21.51 ESU	TPMT 110204N-SU	•	•			1/64
	TPMT 21.52 ESU	TPMT 110208N-SU	•	•			1/32
	TPMT 220.5 ESU	TPMT 110302N-SU	• ★ ★	•		1/4 1/8	1/128
	TPMT 221 ESU	TPMT 110304N-SU	• ★ ★	•			1/64
	TPMT 222 ESU	TPMT 110308N-SU	• ★ ★	•			1/32
	TPMT 32.51 ESU	TPMT 16T304N-SU	•	•		3/8 5/32	1/64
	TPMT 32.52 ESU	TPMT 16T308N-SU	•	•			1/32
	TPMT 331 ESU	TPMT 160404N-SU	• ★ ★	•		3/16 3/16	1/64
	TPMT 332 ESU	TPMT 160408N-SU	• ★	•			1/32
							Depth of Cut (inches) Feed (Inches/Rev)

Indexable Inserts

Indexable Inserts

General Info	TPMT		 	Coated						Cermet		Uncoated		Dimensions (Inches)				Insert Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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TPGT			Coated								Cermet		Uncoated		Dimensions (Inches)				Insert Hole		
FX																					
Sumitomo Cat. No.		New ISO Cat. No.			AC325	ACZ310	EH10Z			T1200A						Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
TPGT 630.5 RFX		TPGT 080202R-FX			▲	★	•									3/16	3/32	1/128	.090	Finishing Depth (Inches) 0.240 0.160 0.080 0 Feed (Inches/Rev) 0.008 0.016 0.024 0	
TPGT 630.5 LFX		TPGT 080202L-FX				★	•														1/128
TPGT 631 RFX		TPGT 080204R-FX			▲	★	•														1/64
TPGT 631 LFX		TPGT 080204L-FX			▲	★	•														1/64
TPGT 1.81.51 LFX		TPGT 090204L-FX								★						7/32	3/32	1/64	.102		
TPGT 21.50.5 RFX		TPGT 110202R-FX			▲		•									1/4	3/32	1/128	.110		
TPGT 21.50.5 LFX		TPGT 110202L-FX			▲		•														1/128
TPGT 21.51 RFX		TPGT 110204R-FX					•														1/64
TPGT 21.51 LFX		TPGT 110204L-FX			▲		•														1/64
TPGT 21.52 RFX		TPGT 110208L-FX			▲		•											1/32	.130		
TPGT 21.52 LFX		TPGT 110208L-FX			▲												1/32				
TPGT 220.5 RFX		TPGT 110302R-FX					★									1/4	1/8	1/128			
TPGT 220.5 LFX		TPGT 110302L-FX					★														1/128
TPGT 221 RFX		TPGT 110304R-FX					★												1/64		
TPGT 221 LFX		TPGT 110304L-FX					★												1/64		

TPGT			Coated								Cermet		Uncoated		Dimensions (Inches)				Insert Hole		
FY																					
Sumitomo Cat. No.		New ISO Cat. No.		ACZ310							T2000Z	T3000Z	T1200A			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
TPGT 630 RFY		TPGT 330401R-FY		★												3/16	3/32	1/256	.090	Depth of Cut (Inches) 0.240 0.160 0.080 0 Feedrate (IPR) 0.008 0.016 0.024 0	
TPGT 630 LFY		TPGT 330401L-FY		★																	1/256
TPGT 630.5 RFY		TPGT 330402R-FY		★							★										1/128
TPGT 630.5 LFY		TPGT 330402L-FY		★							★										1/128
TPGT 631 RFY		TPGT 330404R-FY		★							★							1/64			
TPGT 631 LFY		TPGT 330404L-FY		★							★							1/64			
TPGT 21.50.5 RFY		TPGT 110202R-FY									★					3/32	1/128	1/128	.110		
TPGT 21.50.5 LFY		TPGT 110202L-FY									★										1/128
TPGT 21.51 RFY		TPGT 110204R-FY									★										1/64
TPGT 21.51 LFY		TPGT 110204L-FY									★										1/64
TPGT 21.52 LFY		TPGT 110208L-FY									★							1/32	.130		
TPGT 220 RFY		TPGT 110301R-FY		★												1/4	1/256	1/256			
TPGT 220 LFY		TPGT 110301L-FY		★																	1/256
TPGT 220.5 RFY		TPGT 110302R-FY		★						★											1/128
TPGT 220.5 LFY		TPGT 110302L-FY		★						★	★	★							1/128		
TPGT 221 RFY		TPGT 110304R-FY		★						★	★	★				1/8	1/64	1/64			
TPGT 221 LFY		TPGT 110304L-FY		★						★	★	★							1/64		
TPGT 222 RFY		TPGT 110308R-FY		★							★								1/32		
TPGT 222 LFY		TPGT 110308L-FY		★															1/32		



To combat built-up edge, increase your surface feet per minute and add coolant if possible.

Indexable Inserts

Indexable Inserts

General Info	TPGT		Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)		Insert Hole	
	W													
Negative Inserts														
Positive Inserts														
Ace-Fix Inserts	TPGG		Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)		Insert Hole	
	SD													
Threading, Grooving, & Cut-Off Inserts														
Ceramic Inserts														
PCBN & PCD Inserts														
Toolholders														
Swiss Toolholders	TPGA		No Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)		Insert Hole	
Boring Bars														
Technical Info														

General Info	TPMR		Chip Breaker		Coated		Cermet		Uncoated		Dimensions (Inches)		Insert Hole	
	EFK													
Negative Inserts														
Positive Inserts														
Ace-Fix Inserts														
Threading, Grooving, & Cut-Off Inserts														
Ceramic Inserts														
PCBN & PCD Inserts														
Toolholders														
Swiss Toolholders														
Boring Bars														
Technical Info														

- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

Indexable Inserts

ALMT

- 60° TRIANGLE INSERTS
- 20° Positive Inserts

TEGN				Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole		
								T1200A				A30	H1			Inscribed Circle	Thickness	Nose Radius
Sumitomo Cat. No.		New ISO Cat. No.																
TEGN 220.5		TEGN 110302									★		1/4	1/8	1/128	—		
TEGN 221		TEGN 110304									★				1/64			
TEGN 222		TEGN 110308									★		1/32					
TEGN 320.5		TEGN 160302									★		1/128					
TEGN 321		TEGN 160304									★		1/64	—				
TEGN 322		TEGN 160308					★			★	★		1/32					
TEGN 431		TEGN 220404									★		1/2	3/16	1/64	—		

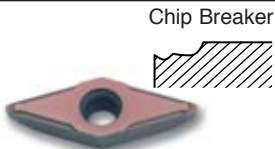
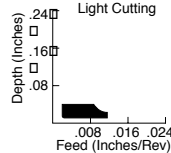
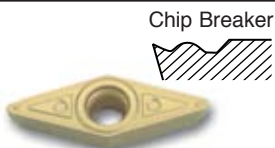
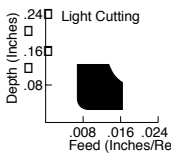
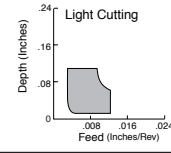
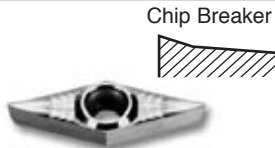
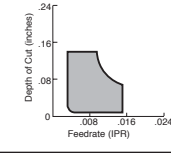
VBMA		No Breaker 	Coated				Cermet	Uncoated	Dimensions (Inches)				Insert Hole 	
			AC300G	AC700G					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	Application 	
Sumitomo Cat. No.		New ISO Cat. No.												
VBMA 331		VBMA 160404	★ ★											
VBMA 332		VBMA 160408	★ ★						3/8	3/16	1/64 1/32	1732		

- = USA stocked item
- ★ = Worldwide Warehouse item
- ▲ = USA limited availability item

ALMT

Indexable Inserts

Indexable Inserts

General Info	■ 35° DIAMOND INSERTS • 7° Positive Inserts															
Negative Inserts	VCMT		Coated					Cermet	Uncoated	Dimensions (Inches)				Insert Hole		
	EFP															
Positive Inserts	Sumitomo Cat. No.		New ISO Cat. No.													
	VCMT 331 EFP		VCMT 160404N-FP													
	VCMT 332 EFP		VCMT 160408N-FP													
Ace-Fix Inserts	VCMT		Coated					Uncoated			Dimensions (Inches)				Insert Hole	
	ENK															
Threading, Grooving, & Cut-Off Inserts	Sumitomo Cat. No.		New ISO Cat. No.		AC2000	AC3000										
	VCMT 331 ENK		VCMT 160404N-SK		•	•										
	VCMT 332 ENK		VCMT 160408N-SK		•	•										
Ceramic Inserts	VCMT		Coated					Cermet			Dimensions (Inches)				Insert Hole	
	ESU															
PCBN & PCD Inserts	Sumitomo Cat. No.		New ISO Cat. No.		AC2000	AC3000	EH510Z	EH520Z								
	VCMT 331 ESU		VCMT 160404N-SU		★	★	•	•								
	VCMT 332 ESU		VCMT 160408N-SU		★	★	•	•								
Toolholders	VCMT		Coated					Cermet	Uncoated	Dimensions (Inches)				Insert Hole		
	NAG															
Boring Bars	Sumitomo Cat. No.		New ISO Cat. No.													
	VCGT 220.5 NAG		VCGT 110302N-AG													
	VCGT 221 NAG		VCGT 110304N-AG													
Technical Info	VCGT 332 NAG		VCGT 160408N-AG													
	VCGT 333 NAG		VCGT 160412N-AG													
• = USA stocked item ★ = Worldwide Warehouse item ▲ = USA limited availability item																

WBGT FW			Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole			
							T1200A	T2000Z			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application		
Sumitomo Cat. No.	New ISO Cat. No.																	
WBGT 520.5 RFW	WBGT 030302R-FW						★							5/32	1/16	1/128	.090	
WBGT 520.5 LFW	WBGT 030302L-FW						★							5/32	1/16	1/128	.090	
WBGT 521 RFW	WBGT 030304R-FW						★							5/32	1/16	1/64	.090	
WBGT 521 LFW	WBGT 030304L-FW						★ ★							5/32	1/16	1/64	.090	
WBGT 630.5 RFW	WBGT 060402R-FW						★							3/16	3/32	1/128	.090	
WBGT 630.5 LFW	WBGT 060402L-FW						★ ★							3/16	3/32	1/128	.090	
WBGT 631 RFW	WBGT 060404R-FW						★							3/16	3/32	1/64	.090	
WBGT 631 LFW	WBGT 060404L-FW						★							3/16	3/32	1/64	.090	

WBGT FX		Chip Breaker		Coated				Cermet		Uncoated		Dimensions (Inches)				Insert Hole							
				ACZ310									Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.							
Sumitomo Cat. No.		New ISO Cat. No.									Application												
WBGT 520.5 RFX	WBGT 030302R-FX	★										5/32					1/16	1/128	.090				
WBGT 521 RFX	WBGT 030304R-FX	★																					
WBGT 630.5 RFX	WBGT 060402R-FX	★																					
WBGT 630.5 LFX	WBGT 060402L-FX	★										3/16					3/32	1/128	.090				
WBGT 631 LFX	WBGT 060404L-FX	★																					
WBGT 631 RFX	WBGT 060404R-FX	★																					

WBGT		Chip Breaker	Coated					Cermet	Uncoated		Dimensions (Inches)				Insert Hole			
			ACZ310						T1200A				Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		Application
Sumitomo Cat. No.	New ISO Cat. No.																	
WBGT 520.5 RFY	WBGT 030302R-FY		★					★										
WBGT 520.5 LFY	WBGT 030302L-FY		★					★										
WBGT 521 RFY	WBGT 030304R-FY		★					★										
WBGT 521 LFY	WBGT 030304L-FY		★					★										

WBGT		Chip Breaker		Coated			Cermet			Uncoated			Dimensions (Inches)				Insert Hole																
W																																	
																	Application																
Sumitomo Cat. No.		New ISO Cat. No.					T2000Z			T1200A			T130Z			Inscribed Circle				Thickness				Nose Radius				Insert Hole Dia.					
WBGT 520.5 R		WBGT 030102R-W														5/32				1/16				1/128				.090				Depth (Inches) Feed (Inches/Rev) Light Cutting	
WBGT 520.5 L		WBGT 030102L-W																															
WBGT 521 R		WBGT 030104R-W																															
WBGT 521 L		WBGT 030104L-W																															

WPMT ESJ				Coated				Cermet				Uncoated				Dimensions (Inches)				Insert Hole	
				AC2000					T1200A					Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.				
Application																					
Sumitomo Cat. No.	New ISO Cat. No.																				
WPMT 21.50.5 ESJ	WPMT 040202N-SJ	•						•										1/4	3/32	1/128	.110
WPMT 21.51 ESJ	WPMT 040204N-SJ	•					•							1/64							

WDGD		 No Breaker	Coated				Cermet	Uncoated		Dimensions (Inches)				Insert Hole				
—											Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	 Application			
Sumitomo Cat. No.		New ISO Cat. No.							EH10									
WDGD 52 VL		WDGW 030100							▲					5/32	1/16	1/512 1/256 1/128 1/64	.090	—
WDGD 520 L		WDGW 030101							▲									
WDGD 520.5L		WDGW 030102																
WDGD 521 L		WDGW 030104																

[illegible]

▲ = USA limited availability item

Indexable Inserts

Ace-Fix Inserts

General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

Toolholders

Swiss Toolholders

Boring Bars

Technical Info

ALMT

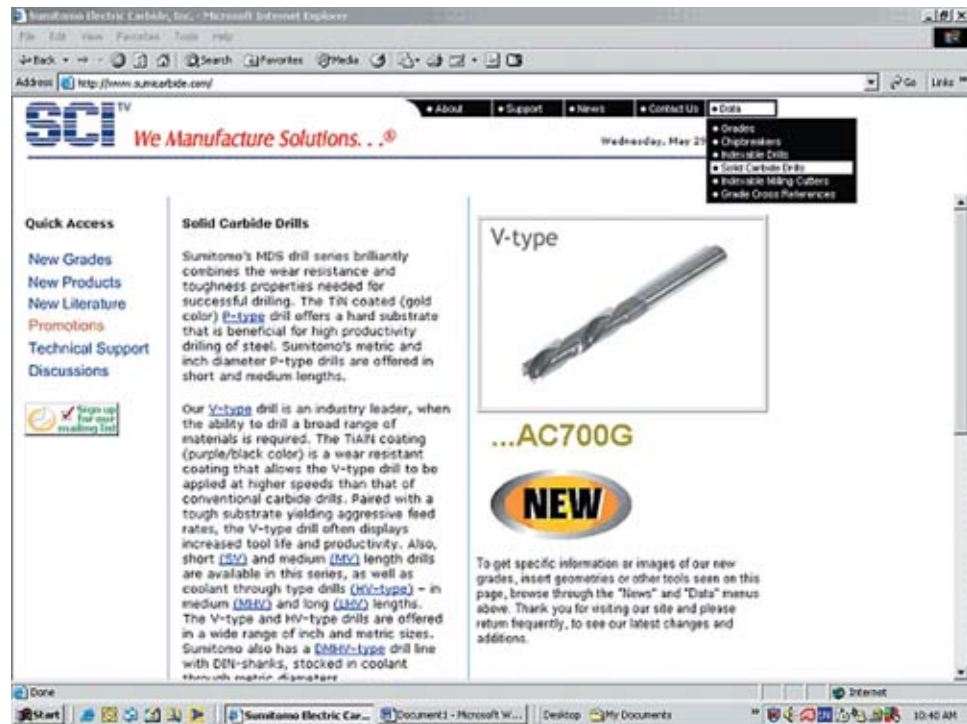
SWISS TOOLING

Back Turn Inserts

BTR		Coated								Cermet	Uncoated	Dimensions (mm)			Drawing		
		ACZ310								T1200A				Inscribed Circle	Thickness	Nose Radius	
Sumitomo Cat. No.	New ISO Cat. No.																
BTR3505	BTR3505	o								o				6.8	3.8	0.05	
BTR3515	BTR3515	o								o						0.15	

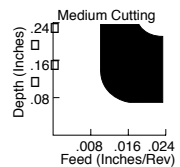
o = Future product

Log on to our web site (www.sumitomo.com) to learn more about our quality Sumitomo products. Find out what makes our products the finest in the industry.

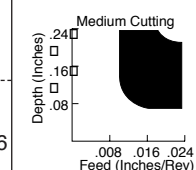


INSERTS FOR ACE-FIX HOLDERS

WGG TYPE (No Breaker Type)

WGG		Coated								Uncoated				Dimensions (Inches)				Insert Hole
						AC325	AC720	ST20E	A30	G10E			Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.		
Sumitomo Cat. No.		New ISO Cat. No															Application	
WGG 31R-0	—											.354	.197	1/64	.1654			
WGG 31L-0	—													1/64				
WGG 41R-0	—											.453	.217	1/64	.1969			
WGG 41L-0	—													1/64				
WGG 42R-0	—													1/32				
WGG 42L-0	—													1/32				
WGG 51R-0	—													1/64				
WGG 51L-0	—													1/64				
WGG 52R-0	—											.571	.260	1/32	.2362			
WGG 52L-0	—													1/32				
WGG 53R-0	—													3/64				
WGG 53L-0	—													3/64				
WGG 62R-0	—													1/32				
WGG 62L-0	—											.689	.311	1/32	.2756			
WGG 63R-0	—													3/64				
WGG 63L-0	—													3/64				
WGG 31R-0T	—											.354	.197	1/64	.1654			
WGG 31L-0T	—													1/64				
WGG 41R-0T	—											.453	.217	1/64	.1969			
WGG 41L-0T	—													1/64				
WGG 42R-0T	—													1/32				
WGG 42L-0T	—													1/32				
WGG 51R-0T	—													1/64				
WGG 51L-0T	—													1/64				
WGG 52R-0T	—											.571	.260	1/32	.2362			
WGG 52L-0T	—													1/32				
WGG 53R-0T	—													3/64				
WGG 53L-0T	—													3/64				
WGG 62R-0T	—													1/32				
WGG 62L-0T	—											.689	.311	1/32	.2756			
WGG 63R-0T	—													3/64				
WGG 63L-0 T	—													3/64				

T = T-Land
• = USA stocked item
★ = Worldwide Warehouse item
▲ = USA limited availability item



General Info

Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

PCBN & PCD Inserts

Toolholders

Swiss Toolholders

Boring Bars

Technical Info

ALMT

Ace-Fix Inserts

General Info

WGG Type (Handed type)

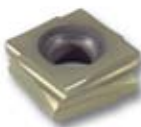
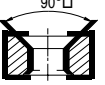
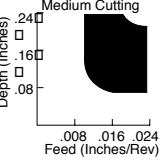
Negative Inserts

Positive Inserts

Ace-Fix Inserts

Threading, Grooving, & Cut-Off Inserts

Ceramic Inserts

WGG	 Chip Breaker	Coated						Uncoated						Dimensions (Inches)				Insert Hole
														Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
3																		Application
Sumitomo Cat. No.		New ISO Cat. No																
WGG 31R-3		—												.354	.197	1/64	.1654	
WGG 31L-3		—														1/64		
WGG 41R-3		—														1/64		
WGG 41L-3		—												.453	.217	1/64	.1969	
WGG 42R-3		—														1/32		
WGG 42L-3		—														1/32		
WGG 51R-3		—														1/64		
WGG 51L-3		—														1/64		
WGG 52R-3		—												.571	.260	1/32	.2362	
WGG 52L-3		—														1/32		
WGG 53R-3		—														3/64		
WGG 53L-3		—														3/64		
WGG 62R-3		—														1/32		
WGG 62L-3		—												.689	.311	1/32	.2756	
WGG 63R-3		—														3/64		
WGG 63L-3		—														3/64		

WMG Type (No Breaker Type)

PCBN & PCD Inserts

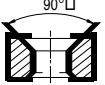
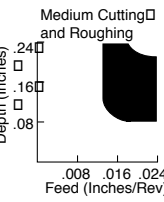
Toolholders

Swiss Toolholders

Boring Bars

Technical Info

ALMT

WMG	 No Breaker	Coated						Uncoated						Dimensions (Inches)				Insert Hole
														Inscribed Circle	Thickness	Nose Radius	Insert Hole Dia.	
—																		Application
Sumitomo Cat. No.		New ISO Cat. No																
WMG 41R-0		—												.453	.217	1/64	.1969	
WMG 41L-0		—														1/64		
WMG 42R-0		—														1/32		
WMG 42L-0		—														1/32		
WMG 51R-0		—														1/64		
WMG 51L-0		—												.571	.260	1/64	.2362	
WMG 52R-0		—														1/32		
WMG 52L-0		—														1/32		
WMG 62R-0		—												.689	.311	1/32	.2756	
WMG 62L-0		—														1/32		
WMG 41R-0T		—												.453	.217	1/64	.1969	
WMG 41L-0T		—														1/64		
WMG 42R-0T		—														1/32		
WMG 42L-0T		—														1/32		
WMG 51R-0T		—														1/64		
WMG 51L-0T		—												.571	.260	1/64	.2362	
WMG 52R-0T		—														1/32		
WMG 52L-0T		—														1/32		
WMG 62R-0T		—												.689	.311	1/32	.2756	
WMG 62L-0T		—														1/32		