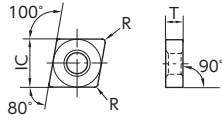


Item Number	IC	T
CN_1204_	12.7	4.76

## <80 degree Rhombic Negative type>



Steel	P
Stainless Steel	M
Cast Iron	K
Non-Ferrous Material	N
Heat Resistant Alloy	S
Hardened Material	H

● : 1st Choice  
● : 2nd choice

Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)					Diamond Coating			For applicable holder, see pages:	
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52	UC1	PD1		PD2
 4 corners available	CNGA 120404 BQ	CNGA431BQ	T00520	0.4	●													
	120408 BQ	432BQ	T00520	0.8	●													
	120412 BQ	433BQ	T00520	1.2	●													
 4 corners available	CNGA 120402 PQ SCD	CNGA4308PQS0415	S01015	0.2							●	●	●					
	120402 PQ SXF	4308PQS0525	S01325	0.2							●	●	●					
	120402 PQ SEH	4308PQS0635	S01535	0.2							●	●	●					
	120402 PQ TCE	4308PQT0420	T01020	0.2							●							
	120404 PQ F	431PQFNX	None	0.4							●			●				
	120404 PQ SCD	431PQS0415	S01015	0.4			●	●			●	●	●					
	120404 PQ SCE	431PQS0420	S01020	0.4						●								
	120404 PQ SXF	431PQS0525	S01325	0.4			●	●			●	●	●					
	120404 PQ SEH	431PQS0635	S01535	0.4			●	●			●	●	●					
	120404 PQ TCE	431PQT0420	T01020	0.4							●							
	120408 PQ F	432PQFNX	None	0.8							●			●				
	120408 PQ SCD	432PQS0415	S01015	0.8			●	●			●	●	●					
	120408 PQ SCE	432PQS0420	S01020	0.8						●								
	120408 PQ SXF	432PQS0525	S01325	0.8			●	●			●	●	●					
	120408 PQ SEH	432PQS0635	S01535	0.8			●	●			●	●	●					
	120408 PQ TBD	432PQT0215	T00515	0.8							●							
	120408 PQ TCE	432PQT0420	T01020	0.8							●							
	120412 PQ F	433PQFNX	None	1.2							●			●				
	120412 PQ SCD	433PQS0415	S01015	1.2			●	●			●	●	●					
	120412 PQ SCE	433PQS0420	S01020	1.2						●								
120412 PQ SXF	433PQS0525	S01325	1.2			●	●			●	●	●						

F9  
F11  
G40  
K34

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

BIDEMICS (Brazed) • CBN • PCD  
 Negative type  
 Positive type

Item Number	IC	T
<b>CN_1204_</b>	12.7	4.76

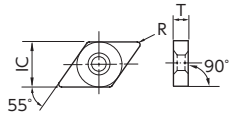
## <80 degree Rhombic Negative type>

Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)					Diamond Coating		PCD	For applicable holder, see pages:		
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52	UC1			PD1	PD2
					Steel	P													
					Stainless Steel	M													
					Cast Iron	K	●	●		●	●	●	●	●	●	●	●		
					Non-Ferrous Material	N										●	●		
					Heat Resistant Alloy	S	●												
					Hardened Material	H		●	●	●									
<p>4 corners available</p>	CNGA 120412 PQ SEH	CNGA433PQS0635	S01535	1.2			●	●											
	120412 PQ TBD	433PQT0215	T00515	1.2															
	120412 PQ TCE	433PQT0420	T01020	1.2															
	120416 PQ SCD	434PQS0415	S01015	1.6															
	120416 PQ SCE	434PQS0420	S01020	1.6						●									
	120416 PQ SXF	434PQS0525	S01325	1.6				●											
	120416 PQ SEH	434PQS0635	S01535	1.6															
	120416 PQ TCE	434PQT0420	T01020	1.6															
	120420 PQ SCD	435PQS0415	S01015	2															
	120420 PQ SCE	435PQS0420	S01020	2						●									
	120420 PQ SXF	435PQS0525	S01325	2					●										
	120420 PQ SEH	435PQS0635	S01535	2															
120420 PQ TCE	435PQT0420	T01020	2																
<p>one side 2 corners available</p>	CNGA 120404 PD F	CNGA431PDFNX	None	0.4															
	120408 PD F	432PDFNX	None	0.8															
	120412 PD F	433PDFNX	None	1.2															
<p>4 corners available with wiper</p>	CNGA 120404 PQ W SCD	CNGA431PQWS0415	S01015	0.4															
	120404 PQ W SEH	431PQWS0635	S01535	0.4															
	120408 PQ W SCD	432PQWS0415	S01015	0.8															
	120408 PQ W SEH	432PQWS0635	S01535	0.8															
	120412 PQ W SCD	433PQWS0415	S01015	1.2															
	120412 PQ W SEH	433PQWS0635	S01535	1.2															
<p>4 corners available</p>	CNMG 120404 FN ZP	CNMG431-FN-ZP	None	0.4															
	120408 FN ZP	432-FN-ZP	None	0.8															
<p>1 corner available with chipbreaker (rake angle 10°)</p>	CNMX 120404 P F		None	0.4															
	120408 P F		None	0.8															

● : Standard stock    ● : New standard stock    ■ : Scheduled to be produced by order    ★ : Standard stock (Specified)

Item Number	IC	T
DN_1504_	12.7	4.76
DN_1506_	12.7	6.35

### <55 degree Rhombic Negative type>



Steel	P
Stainless Steel	M
Cast Iron	K
Non-Ferrous Material	N
Heat Resistant Alloy	S
Hardened Material	H

● : 1st Choice  
● : 2nd choice

Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)					Diameter Coating	PCD	For applicable holder, see pages:	
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40				B52
 4 corners available	DNGA 150404 BQ	DNGA431BQ	T00520	0.4	●												
	150408 BQ	432BQ	T00520	0.8	●												
	150412 BQ	433BQ	T00520	1.2	●												
 4 corners available	DNGA 150402 PQ SCD	DNGA4308PQS0415	S01015	0.2													
	150402 PQ SXF	4308PQS0525	S01325	0.2													
	150402 PQ SEH	4308PQS0635	S01535	0.2													
	150402 PQ TCE	4308PQT0420	T01020	0.2													
	150404 PQ F	431PQFNX	None	0.4													
	150404 PQ SCD	431PQS0415	S01015	0.4			●	●									
	150404 PQ SCE	431PQS0420	S01020	0.4													
	150404 PQ SXF	431PQS0525	S01325	0.4			●	●									
	150404 PQ SEH	431PQS0635	S01535	0.4			●	●									
	150404 PQ TCE	431PQT0420	T01020	0.4													
	150408 PQ F	432PQFNX	None	0.8													
	150408 PQ SCD	432PQS0415	S01015	0.8			●	●									
	150408 PQ SCE	432PQS0420	S01020	0.8													
	150408 PQ SXF	432PQS0525	S01325	0.8			●	●									
	150408 PQ SEH	432PQS0635	S01535	0.8			●	●									
	150408 PQ TCE	432PQT0420	T01020	0.8													
	150412 PQ F	433PQFNX	None	1.2													
	150412 PQ SCD	433PQS0415	S01015	1.2			●	●									
	150412 PQ SCE	433PQS0420	S01020	1.2													
	150412 PQ SXF	433PQS0525	S01325	1.2			●	●									
	150412 PQ SEH	433PQS0635	S01535	1.2			●	●									
	150412 PQ TCE	433PQT0420	T01020	1.2													
	150416 PQ SCD	434PQS0415	S01015	1.6			●	●									
	150416 PQ SCE	434PQS0420	S01020	1.6													
	150416 PQ SXF	434PQS0525	S01325	1.6			●	●									
	150416 PQ SEH	434PQS0635	S01535	1.6			●	●									
	150416 PQ TCE	434PQT0420	T01020	1.6													
	150420 PQ SCD	435PQS0415	S01015	2				●									
	150420 PQ SXF	435PQS0525	S01325	2				●									
	150420 PQ SEH	435PQS0635	S01535	2				●									
DNGA 150602 PQ SCD	4408PQS0415	S01015	0.2														
150604 PQ SCD	441PQS0415	S01015	0.4														
150604 PQ SXF	441PQS0525	S01325	0.4														

F13  
F15  
G41  
K35

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

BIDEMICS (Brazed) • CBN • PCD

Negative type

Positive type

◊

◊

○

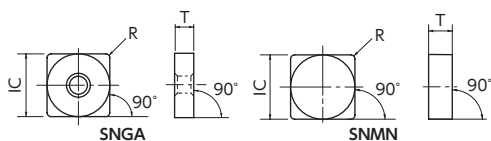
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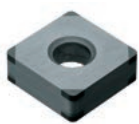

Item Number	IC	T
<b>SN_0903</b>	9.525	3.18
<b>SN_1203</b>	12.7	3.18
<b>SN_1204</b>	12.7	4.76

## <90 degree Square Negative type>



Steel	P																			
Stainless Steel	M																			
Cast Iron	K																			
Non-Ferrous Material	N																			
Heat Resistant Alloy	S																			
Hardened Material	H																			

● : 1st Choice  
● : 2nd choice

Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)					Diamond Coating			For applicable holder, see pages:				
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52	UC1	PD1		PD2			
 <p>8 corners available</p>	<b>SNGA 120402 PE SXF</b>	<b>SNGA4308PES0525</b>	S01325	0.2																	
	<b>120404 PE SCD</b>	<b>431PES0415</b>	S01015	0.4																	
	<b>120404 PE SCE</b>	<b>431PES0420</b>	S01020	0.4																	
	<b>120404 PE SXF</b>	<b>431PES0525</b>	S01325	0.4																	
	<b>120404 PE SEH</b>	<b>431PES0635</b>	S01535	0.4																	
	<b>120404 PE TCE</b>	<b>431PET0420</b>	T01020	0.4																	
	<b>120408 PE SCD</b>	<b>432PES0415</b>	S01015	0.8																	
	<b>120408 PE SCE</b>	<b>432PES0420</b>	S01020	0.8																	
	<b>120408 PE SXF</b>	<b>432PES0525</b>	S01325	0.8																	
	<b>120408 PE SEH</b>	<b>432PES0635</b>	S01535	0.8																	
	<b>120408 PE TCE</b>	<b>432PET0420</b>	T01020	0.8																	
	<b>120412 PE SCD</b>	<b>433PES0415</b>	S01015	1.2																	
	<b>120412 PE SCE</b>	<b>433PES0420</b>	S01020	1.2																	
	<b>120412 PE SXF</b>	<b>433PES0525</b>	S01325	1.2																	
	<b>120412 PE SEH</b>	<b>433PES0635</b>	S01535	1.2																	
	<b>120412 PE TCE</b>	<b>433PET0420</b>	T01020	1.2																	
	<b>120416 PE SCD</b>	<b>434PES0415</b>	S01015	1.6																	
<b>120416 PE SXF</b>	<b>434PES0525</b>	S01325	1.6																		
<b>120416 PE TCE</b>	<b>434PET0420</b>	T01020	1.6																		
 <p>(Solid CBN)</p>	<b>SNMN 090308 S TNB</b>	<b>SNMN322STNB</b>	T00525	0.8																	
	<b>090312 S TN</b>	<b>323STN</b>	T01025	1.2																	
	<b>SNMN 120308 S TN</b>	<b>SNMN422STN</b>	T01025	0.8																	
	<b>120312 S TN</b>	<b>423STN</b>	T01025	1.2																	
	<b>SNMN 120408 S TN</b>	<b>SNMN432STN</b>	T01025	0.8																	
	<b>120412 S TNF</b>	<b>433STNF</b>	T02025	1.2																	
	<b>120416 S TNF</b>	<b>434STNF</b>	T02025	1.6																	

**F17**  
**F19**  
**K36**

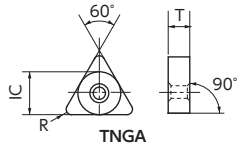
**F17**  
**F19**  
**F21**  
**K36**  
**N12**  
**N14**  
**N16**

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

**BIDEMICS (Brazed) • CBN • PCD**  
**F**  
**Negative type**  
**Positive type**  
**G**  
**D**  
**R**  
**S**  
**T**  
**V**


Item Number	IC	T
<b>TN_1604_</b>	9.525	4.76
<b>TN_2204_</b>	12.7	4.76

## <60 degree Triangle Negative type>



Steel	P																					
Stainless Steel	M																					
Cast Iron	K																					
Non-Ferrous Material	N																					
Heat Resistant Alloy	S																					
Hardened Material	H																					

● : 1st Choice  
● : 2nd choice

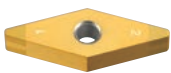
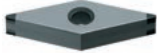
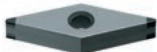
Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)					Diamond Coating		PCD	For applicable holder, see pages:					
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52	UC1			PD1	PD2			
 <p>6 corners available</p>	<b>TNGA 160401 PH F</b>	<b>TNGA3304PHFNX</b>	None	0.1																		
	160401 PH SCD	3304PHS0415	S01015	0.1			●	●														
	160401 PH SXF	3304PH0525	S01325	0.1			●	●														
	160401 PH SEH	3304PHS0635	S01535	0.1																		
	160402 PH F	3308PHFNX	None	0.2																		
	160402 PH SCD	3308PHS0415	S01015	0.2			●	●														
	160402 PH SXF	3308PHS0525	S01325	0.2			●	●														
	160402 PH SEH	3308PHS0635	S01535	0.2			●															
	160404 PH F	331PHFNX	None	0.4																		
	160404 PH SCD	331PHS0415	S01015	0.4			●	●														
	160404 PH SCE	331PHS0420	S01020	0.4																		
	160404 PH SXF	331PHS0525	S01325	0.4			●	●														
	160404 PH SEH	331PHS0635	S01535	0.4			●	●														
	160404 PH TCE	331PHT0420	T01020	0.4																		
	160408 PH F	332PHFNX	None	0.8																		
	160408 PH SCD	332PHS0415	S01015	0.8			●	●														
	160408 PH SCE	332PHS0420	S01020	0.8																		
	160408 PH SXF	332PHS0525	S01325	0.8			●	●														
	160408 PH SEH	332PHS0635	S01535	0.8			●	●														
	160408 PH TCE	332PHT0420	T01020	0.8																		
	160412 PH F	333PHFNX	None	1.2																		
	160412 PH SCD	333PHS0415	S01015	1.2			●	●														
	160412 PH SCE	333PHS0420	S01020	1.2																		
	160412 PH SXF	333PHS0525	S01325	1.2			●	●														
	160412 PH SEH	333PHS0635	S01535	1.2			●	●														
	160412 PH TCE	333PHT0420	T01020	1.2																		
	160416 PH SCD	334PHS0415	S01015	1.6			●	●														
	160416 PH SXF	334PHS0525	S01325	1.6			●	●														
	160416 PH SEH	334PHS0635	S01535	1.6			●	●														
	160416 PH TCE	334PHT0420	T01020	1.6																		
220412 PH SCD	433PHS0415	S01015	1.2																			
220412 PH SEH	433PHS0635	S01535	1.2																			

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

**F23**  
**F25**  
**G39**

Item Number	IC	T
<b>VN_1604_</b>	9.525	4.76

## <35 degree Rhombic Negative type>

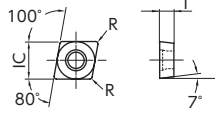
Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)					Diamond Coating	PCD	For applicable holder, see pages:	
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52	UC1		PD1
					Steel	P											
					Stainless Steel	M											
					Cast Iron	K	●	●		●	●	●	●	●	●	●	●
					Non-Ferrous Material	N									●	●	●
					Heat Resistant Alloy	S	●										
					Hardened Material	H		●	●	●							
	VNGA 160404 BQ	VNGA331BQ	T00520	0.4	●												
	160408 BQ	332BQ	T00520	0.8	●												
	160412 BQ	333BQ	T00520	1.2	●												
 4 corners available	VNGA 160401 PQ SCD	VNGA3304PQS0415	S01015	0.1											●		
	160401 PQ SEH	3304PQS0635	S01535	0.1											●		
	160402 PQ F	3308PQFNX	None	0.2							●						
	160402 PQ SCD	3308PQS0415	S01015	0.2			●					●	●	●			
	160402 PQ SXF	3308PQS0525	S01325	0.2			●					●	●	●			
	160402 PQ SEH	3308PQS0635	S01535	0.2			●					●	●	●			
	160402 PQ TCE	3308PQT0420	T01020	0.2							●						
	160404 PQ F	331PQFNX	None	0.4								●		●			
	160404 PQ SCD	331PQS0415	S01015	0.4				●	●			●	●	●			
	160404 PQ SXF	331PQS0525	S01325	0.4				●	●			●	●	●			
	160404 PQ SEH	331PQS0635	S01535	0.4				●	●			●	●	●			
	160404 PQ TCE	331PQT0420	T01020	0.4							●						
	160408 PQ F	332PQFNX	None	0.8								●		●			
	160408 PQ SCD	332PQS0415	S01015	0.8				●	●			●	●	●			
	160408 PQ SXF	332PQS0525	S01325	0.8				●	●			●	●	●			
	160408 PQ SEH	332PQS0635	S01535	0.8				●	●			●	●	●			
	160408 PQ TCE	332PQT0420	T01020	0.8							●						
160412 PQ SCD	333PQS0415	S01015	1.2				●	●			●	●	●				
160412 PQ SXF	333PQS0525	S01325	1.2				●	●			●	●	●				
160412 PQ SEH	333PQS0635	S01535	1.2				●	●			●	●	●				
160412 PQ TCE	333PQT0420	T01020	1.2							●							
 one side 2 corners available	VNGA 160402 PD F	VNGA3308PDFNX	None	0.2								●					
	160404 PD F	331PDFNX	None	0.4								●					
	160408 PD F	332PDFNX	None	0.8								●					
	160412 PD F	333PDFNX	None	1.2								●					

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

**F27**

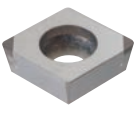
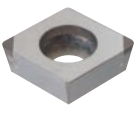

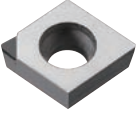

Item Number	IC	T	Relief angle
CC 0602	6.35	2.38	7°
CC 09T3	9.525	3.97	7°

<80 degree Rhombic Positive type>



Steel	P																			
Stainless Steel	M																			
Cast Iron	K																			
Non-Ferrous Material	N																			
Heat Resistant Alloy	S																			
Hardened Material	H																			

● : 1st Choice  
● : 2nd choice

Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)				Diamond Coating		PCD	For applicable holder, see pages:					
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52			UC1	PD1	PD2		
 <p>2 corners available</p>	CCGW 060202 PD F	CCGW21.508PDFNX	None	0.2																	
	060202 PD SCD	21.508PDS0415	S01015	0.2																	
	060202 PD SXF	21.508PDS0525	S01325	0.2																	
	060202 PD SEH	21.508PDS0635	S01535	0.2																	
	060204 PD F	21.51PDFNX	None	0.4																	
	060204 PD SCD	21.51PDS0415	S01015	0.4																	
	060204 PD SXF	21.51PDS0525	S01325	0.4																	
	060204 PD SEH	21.51PDS0635	S01535	0.4																	
	060208 PD F	21.52PDFNX	None	0.8																	
	060208 PD SCD	21.52PDS0415	S01015	0.8																	
	060208 PD SXF	21.52PDS0525	S01325	0.8																	
	060208 PD SEH	21.52PDS0635	S01535	0.8																	
	060208 PD TEE	21.52PDT0620	T01520	0.8																	
	 <p>2 corners available</p>	CCGW 09T302 PD F	CCGW32.508PDFNX	None	0.2																
		09T302 PD SCD	32.508PDS0415	S01015	0.2																
		09T302 PD SXF	32.508PDS0525	S01325	0.2																
		09T302 PD SEH	32.508PDS0635	S01535	0.2																
		09T304 PD F	32.51PDFNX	None	0.4																
		09T304 PD SCD	32.51PDS0415	S01015	0.4																
		09T304 PD SXF	32.51PDS0525	S01325	0.4																
09T304 PD SEH		32.51PDS0635	S01535	0.4																	
09T308 PD F		32.52PDFNX	None	0.8																	
09T308 PD SCD		32.52PDS0415	S01015	0.8																	
09T308 PD SXF		32.52PDS0525	S01325	0.8																	
09T308 PD SEH		32.52PDS0635	S01535	0.8																	
 <p>1 corner available</p>	CCMW 09T301	—	None	0.1																	
	09T302	—	None	0.2																	
	09T304	—	None	0.4																	
	09T308	—	None	0.8																	
 <p>1 corner available with 3D chipbreaker (rake angle 10°)</p>	CCMT 060201 PB F		None	0.1																	
	060202 PB F		None	0.2																	
	060204 PB F		None	0.4																	
	09T301 PB F		None	0.1																	
	09T302 PB F		None	0.2																	
 <p>1 corner available with chipbreaker (rake angle 10°)</p>	09T304 PB F		None	0.4																	
	09T302 P F		None	0.2																	
	09T304 P F		None	0.4																	

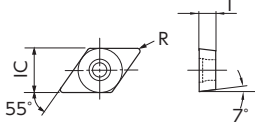


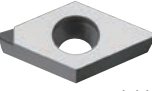
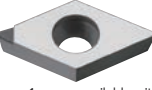
G23  
K28

G23  
K28

● : Standard stock    ● : New standard stock    ■ : Scheduled to be produced by order    ★ : Standard stock (Specified)

Item Number	IC	T	Relief angle
DC_0702_	6.35	2.38	7°
DC_11T3_	9.525	3.97	7°

## <55 degree Rhombic Positive type>

Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)				Diamond Coating			PCD	For applicable holder, see pages:	
					JP2	B16	B5K	B6K	B22	B23	B30	B36			B40
 2 corners available	DCGW 070202 PD F	DCGW21.508PDFNX	None	0.2											
	070202 PD SCD	21.508PDS0415	S01015	0.2											
	070202 PD SEH	21.508PDS0635	S01535	0.2											
	070204 PD F	21.51PDFNX	None	0.4											
	070204 PD SCD	21.51PDS0415	S01015	0.4											
	070204 PD SEH	21.51PDS0635	S01535	0.4											
	070208 PD F	21.52PDFNX	None	0.8											
	070208 PD SCD	21.52PDS0415	S01015	0.8											
	070208 PD SXF	21.52PDS0525	S01325	0.8											
	070208 PD SEH	21.52PDS0635	S01535	0.8											
	DCGW 11T301 PD SCD	DCGW32.504PDS0415	S01015	0.1											
	11T302 PD F	32.508PDFNX	None	0.2											
	11T302 PD SCD	32.508PDS0415	S01015	0.2											
	11T302 PD SXF	32.508PDS0525	S01325	0.2											
	11T302 PD SEH	32.508PDS0635	S01535	0.2											
	11T304 PD F	32.51PDFNX	None	0.4											
	11T304 PD SCD	32.51PDS0415	S01015	0.4											
	11T304 PD SXF	32.51PDS0525	S01325	0.4											
	11T304 PD SEH	32.51PDS0635	S01535	0.4											
	11T304 PD TCD	32.51PDT0415	T01015	0.4											
11T308 PD F	32.52PDFNX	None	0.8												
11T308 PD SCD	32.52PDS0415	S01015	0.8												
11T308 PD SXF	32.52PDS0525	S01325	0.8												
11T308 PD SEH	32.52PDS0635	S01535	0.8												
11T312 PD SCD	32.53PDS0415	S01015	1.2												
 2 corners available	DCMT 11T301 FN AM3	—	None	0.1											
	11T302 FN AM3	—	None	0.2											
	11T304 FN AM3	—	None	0.4											
 1 corner available	DCMW 11T301	—	None	0.1											
	11T302	—	None	0.2											
	11T304	—	None	0.4											
	11T308	—	None	0.8											
 1 corner available with 3D chipbreaker (rake angle 10°)	DCMT 070201 PB F		None	0.1											
	070202 PB F		None	0.2											
	11T301 PB F		None	0.1											
	11T302 PB F		None	0.2											
	11T304 PB F		None	0.4											
 1 corner available with chipbreaker (rake angle 10°)	DCMT 070201 P F		None	0.1											
	070202 P F		None	0.2											
	11T302 P F		None	0.2											
	11T304 P F		None	0.4											

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

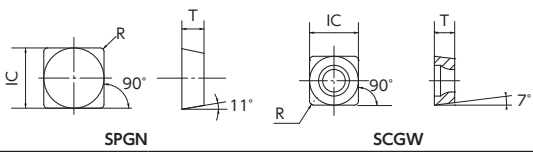
**G25**  
**G27**

New Products  
Tool Materials / Selection Guide  
BIDEMICS, PCD, Micrograin Carbide, PVD Coated Carbide, CBN and Ceramics  
Insert Item List  
General Turning Toolholders  
Unique Swiss Tooling  
Grooving / Side Turning  
Threading  
Shaper  
ID Tooling  
Application Introduction  
Endmills  
Rotating Tools  
Information  
Index



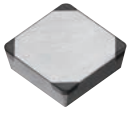
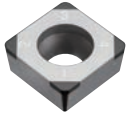
Item Number	IC	T	Relief angle
<b>SP_0903_</b>	9.525	3.18	11°
<b>SC_09T3_</b>	9.525	3.97	7°

## <90 degree Square Positive type>



Steel	P																			
Stainless Steel	M																			
Cast Iron	K		●	●		●	●		●	●		●	●		●	●		●	●	
Non-Ferrous Material	N																			
Heat Resistant Alloy	S		●																	
Hardened Material	H				●	●	●		●	●		●	●		●	●		●	●	

● : 1st Choice  
● : 2nd choice

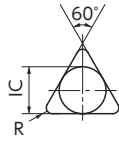
Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)					Diamond Coating		PCD	For applicable holder, see pages:					
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52	UC1			PD1	PD2			
 <p>4 corners available</p>	SPGN 090304 PQ SCD	SPGN321PQS0415	S01015	0.4																		
	090304 PQ SCE	321PQS0420	S01020	0.4						●												
	090304 PQ SEH	321PQS0635	S01535	0.4										●	●							
	090304 PQ TCE	321PQT0420	T01020	0.4							●											
	SPGN 090308 PQ SCD	SPGN322PQS0415	S01015	0.8											●	●						
	090308 PQ SCE	322PQS0420	S01020	0.8							●											
	090308 PQ SEH	322PQS0635	S01535	0.8											●	●						
	090308 PQ TCE	322PQT0420	T01020	0.8								●										
	SPGN 090312 PQ SCD	SPGN323PQS0415	S01015	1.2												●	●					
	090312 PQ SCE	323PQS0420	S01020	1.2								●										
	090312 PQ SEH	323PQS0635	S01535	1.2												●	●					
	090312 PQ TCE	323PQT0420	T01020	1.2									●									
	SCGW 09T304 PQ ZCD	SCGW32.51PQZ0415	Z01015	0.4																		
	09T308 PQ ZCD	32.52PQZ0415	Z01015	0.8												●						

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

- F
- BIDEMICS (Brazed) • CBN • PCD
- Negative type
- Positive type
- C
- D
- R
- S
- T
- V

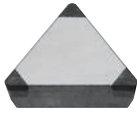
Item Number	IC	T	Relief angle
<b>TP_1103_</b>	6.35	3.18	11°
<b>TP_1603_</b>	9.525	3.18	11°

## <60 degree Triangle Positive type>



Steel	P
Stainless Steel	M
Cast Iron	K
Non-Ferrous Material	N
Heat Resistant Alloy	S
Hardened Material	H

● : 1st Choice  
● : 2nd choice

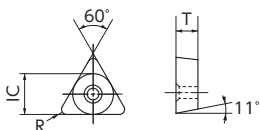
Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)					Diamond Coating	PCD	For applicable holder, see pages:
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52	UC1	
 <p>3 corners available</p>	<b>TPGN 110302 PT SCD</b>	<b>TPGN2208PTS0415</b>	S01015	0.2												
	<b>110302 PT SCE</b>	<b>2208PTS0420</b>	S01020	0.2												
	<b>110302 PT SXF</b>	<b>2208PTS0525</b>	S01325	0.2												
	<b>110302 PT SEH</b>	<b>2208PTS0635</b>	S01535	0.2												
	<b>110304 PT SCD</b>	<b>221PTS0415</b>	S01015	0.4												
	<b>110304 PT SCE</b>	<b>221PTS0420</b>	S01020	0.4												
	<b>110304 PT SXF</b>	<b>221PTS0525</b>	S01325	0.4												
	<b>110304 PT SEH</b>	<b>221PTS0635</b>	S01535	0.4												
	<b>110304 PT TCE</b>	<b>221PTT0420</b>	T01020	0.4												
	<b>110308 PT SCD</b>	<b>222PTS0415</b>	S01015	0.8												
	<b>110308 PT SCE</b>	<b>222PTS0420</b>	S01020	0.8												
	<b>110308 PT SXF</b>	<b>222PTS0525</b>	S01325	0.8												
	<b>110308 PT SEH</b>	<b>222PTS0635</b>	S01535	0.8												
	<b>110308 PT TCE</b>	<b>222PTT0420</b>	T01020	0.8												
	<b>110312 PT SCD</b>	<b>223PTS0415</b>	S01015	1.2												
	<b>110312 PT SCE</b>	<b>223PTS0420</b>	S01020	1.2												
	<b>110312 PT SXF</b>	<b>223PTS0525</b>	S01325	1.2												
	<b>110312 PT SEH</b>	<b>223PTS0635</b>	S01535	1.2												
	<b>110312 PT TCE</b>	<b>223PTT0420</b>	T01020	1.2												
	<b>TPGN 160302 PT SCD</b>	<b>TPGN3208PTS0415</b>	S01015	0.2												
	<b>160302 PT SXF</b>	<b>3208PTS0525</b>	S01325	0.2												
	<b>160302 PT SEH</b>	<b>3208PTS0635</b>	S01535	0.2												
	<b>160304 PT SCD</b>	<b>321PTS0415</b>	S01015	0.4												
	<b>160304 PT SCE</b>	<b>321PTS0420</b>	S01020	0.4												
	<b>160304 PT SXF</b>	<b>321PTS0525</b>	S01325	0.4												
	<b>160304 PT SEH</b>	<b>321PTS0635</b>	S01535	0.4												
	<b>160304 PT TCE</b>	<b>321PTT0420</b>	T01020	0.4												
	<b>160308 PT SCD</b>	<b>322PTS0415</b>	S01015	0.8												
	<b>160308 PT SCE</b>	<b>322PTS0420</b>	S01020	0.8												
	<b>160308 PT SXF</b>	<b>322PTS0525</b>	S01325	0.8												
<b>160308 PT SEH</b>	<b>322PTS0635</b>	S01535	0.8													
<b>160308 PT TCE</b>	<b>322PTT0420</b>	T01020	0.8													
<b>160312 PT SCD</b>	<b>323PTS0415</b>	S01015	1.2													
<b>160312 PT SCE</b>	<b>323PTS0420</b>	S01020	1.2													
<b>160312 PT SXF</b>	<b>323PTS0525</b>	S01325	1.2													
<b>160312 PT SEH</b>	<b>323PTS0635</b>	S01535	1.2													
<b>160312 PT TCE</b>	<b>323PTT0420</b>	T01020	1.2													

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

- New Products
- Tool Materials / Selection Guide
- BIDEMICS, PCD, CBN and Ceramics
- Micrograin Carbide, PVD Coated Carbide
- Insert Item List
- General Turning Toolholders
- Unique Swiss Tooling
- Grooving / Side Turning
- Threading
- Shaper
- ID Tooling
- Application Introduction
- Endmills
- Rotating Tools
- Information
- Index

Item Number	IC	T	Relief angle
TP_0902_	5.56	2.38	11°
TP_1103_	6.35	3.18	11°

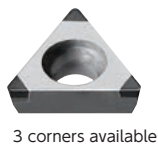
### <60 degree Triangle Positive type>



Steel	P																		
Stainless Steel	M																		
Cast Iron	K																		
Non-Ferrous Material	N																		
Heat Resistant Alloy	S																		
Hardened Material	H																		

● : 1st Choice  
● : 2nd choice

Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)				CBN (Brazed)					Diamond Coating			For applicable holder, see pages:			
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52	UC1	PD1	PD2				
Positive type	TPGW 090202 PT SCD	TPGD7308PTS0415	S01015	0.2																	
	090202 PT SXF	7308PTS0525	S01325	0.2																	
	090202 PT SEH	7308PTS0635	S01535	0.2																	
	090204 PT SCD	731PTS0415	S01015	0.4																	
	090204 PT SXF	731PTS0525	S01325	0.4																	
	090204 PT SEH	731PTS0635	S01535	0.4																	
	090208 PT SCD	732PTS0415	S01015	0.8																	
	090208 PT SXF	732PTS0525	S01325	0.8																	
	090208 PT SEH	732PTS0635	S01535	0.8																	
	090312 PT SCD	743PTS0415	S01015	1.2																	
	090312 PT SXF	743PTS0525	S01325	1.2																	
	090312 PT SEH	743PTS0635	S01535	1.2																	
Negative type	TPGW 110302 PT SCD	TPGW2208PTS0415	S01015	0.2																	
	110302 PT SXF	2208PTS0525	S01325	0.2																	
	110302 PT SEH	2208PTS0635	S01535	0.2																	
	110302 PT TCE	2208PTT0420	T01020	0.2																	
	110304 PT SCD	221PTS0415	S01015	0.4																	
	110304 PT SXF	221PTS0525	S01325	0.4																	
	110304 PT SEH	221PTS0635	S01535	0.4																	
	110304 PT TCE	221PTT0420	T01020	0.4																	
	110304 PT TED	221PTT0615	T01515	0.4																	
	110308 PT SCD	222PTS0415	S01015	0.8																	
	110308 PT SXF	222PTS0525	S01325	0.8																	
	110308 PT SEH	222PTS0635	S01535	0.8																	
110308 PT TCE	222PTT0420	T01020	0.8																		
110308 PT TED	222PTT0615	T01515	0.8																		
110312 PT SCD	223PTS0415	S01015	1.2																		
110312 PT SXF	223PTS0525	S01325	1.2																		
110312 PT SEH	223PTS0635	S01535	1.2																		
110312 PT TCE	223PTT0420	T01020	1.2																		
110312 PT TED	223PTT0615	T01515	1.2																		

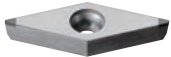
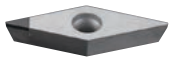


K30  
K31  
K32

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

Item Number	IC	T	Relief angle
<b>VC_1103_</b>	6.35	3.18	7°
<b>VC_1604_</b>	9.525	4.76	7°


## <35 degree Rhombic Positive type>

Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)					Diamond Coating			PCD	For applicable holder, see pages:	
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52	UC1	PD1			PD2
 <p>2 corners available</p>	VCGW 110302 PD SCD	VCGW2208PDS0415	S01015	0.2															
	110302 PD SEH	2208PDS0635	S01535	0.2															
	110304 PD SCD	221PDS0415	S01015	0.4															
	110304 PD SEH	221PDS0635	S01535	0.4															
	110308 PD SCD	222PDS0415	S01015	0.8															
	110308 PD SEH	222PDS0635	S01535	0.8															
	110312 PD SCD	223PDS0415	S01015	1.2															
	110312 PD SEH	223PDS0635	S01535	1.2															
	VCGW 160402 PD SCD	VCGW3308PDS0415	S01015	0.2															
	160402 PD SEH	3308PDS0635	S01535	0.2															
	160404 PD SCD	331PDS0415	S01015	0.4															
	160404 PD SEH	331PDS0635	S01535	0.4															
	160404 PD TCE	331PDT0420	T01020	0.4															
	160408 PD SCD	332PDS0415	S01015	0.8															
	160408 PD SEH	332PDS0635	S01535	0.8															
	160408 PD TCE	332PDT0420	T01020	0.8															
	160412 PD SCD	333PDS0415	S01015	1.2															
	160412 PD SEH	333PDS0635	S01535	1.2															
160412 PD TCE	333PDT0420	T01020	1.2																
 <p>1 corner available</p>	VCMW 110301	—	None	0.1															
	110302	—	None	0.2															
	110304	—	None	0.4															

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

**G29**  
**G31**  
**G56**

## <For Machining Mill Rolls>

Shape	ISO Item Number	Inch Item Number	Edge Prep.	R	BIDEMICS (Coated)	CBN (Brazed) (Coated)			CBN (Brazed)					Diamond Coating			PCD	For applicable holder, see pages:	
					JP2	B16	B5K	B6K	B22	B23	B30	B36	B40	B52	UC1	PD1			PD2
 <p>(Top full-face CBN)</p>	<b>RBGX 16 S</b>	—	S01015	—															
	<b>RBGX 20 S</b>	—	S01015	—															

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

New Products  
Tool Materials / Selection Guide  
BIDEMICS, PCD, CBN and Ceramics  
Micrograin Carbide, PVD Coated Carbide  
Insert Item List  
General Turning Toolholders  
Unique Swiss Tooling  
Grooving / Side Turning  
Threading  
Shaper  
ID Tooling  
Application Introduction  
Endmills  
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