







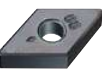










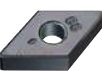




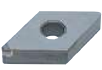




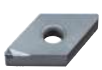





# CLASSIFICATION

## NEGATIVE INSERTS WITH HOLE

Product Name	Type	Tolerance	Breaker Name and Cross Section	Rhombic 80°	Rhombic 55°	Square 90°	Triangular 60°	Rhombic 35°	Trigon 80°
NEW PETIT CUT	Multi-corner Type Double Sided	G	Flat Top	NP-CNGA_04  ⊕ B028	NP-DNGA_04  ⊕ B032	NP-SNGA_04  ⊕ B037	NP-TNGA_06  ⊕ B039	NP-VNGA_04  ⊕ B042	NP-WNGA_06  ⊕ B044
	Multi-corner Type Double Sided With Wiper		Flat Top	NP-CNGA_0WS4  ⊕ B028					
	Multi-corner Type Double Sided With Breaker		BF	BF-CNGG_04  ⊕ B028	BF-DNGG_04  ⊕ B033				
	Multi-corner Type Double Sided With Breaker	G	Flat Top	NP-CNGA_02*  ⊕ B029	NP-DNGA_02*  ⊕ B033	NP-SNGA_02*  ⊕ B037	NP-TNGA_03*  ⊕ B039	NP-VNGA_02*  ⊕ B042	NP-WNGA_03  ⊕ B044
	Multi-corner Type Single Sided With Wiper		Flat Top	NP-CNGA_0WS2  ⊕ B030	NP-DNGA_0WS2J_R/L  ⊕ B035				NP-WNGA_0WS3  ⊕ B044
	Multi-corner Type Single Sided With Breaker		BF	BF-CNGM_02  ⊕ B030	BF-DNGM_02  ⊕ B035				
	Multi-corner Type Single Sided With Breaker	M	BM	BM-CNGM_02  ⊕ B030	BM-DNGM_02  ⊕ B035		BM-TNGM_03  ⊕ B040		
	One-corner Type Single Sided		Flat Top	NP-CNMA_0  ⊕ B031	NP-DNMA_0  ⊕ B036	NP-SNMA_0  ⊕ B038	NP-TNMA_0  ⊕ B040	NP-VNMA_0  ⊕ B043	
	One-corner Type Single Sided With Breaker		R/L-F	NP-CNMM_R/L-F  ⊕ B068	NP-DNMM_R/L-F  ⊕ B068	NP-SNMM_R/L-F  ⊕ B069	NP-TNMM_R/L-F  ⊕ B069	NP-VNMM_R/L-F  ⊕ B070	

Note1) Two types of packs for \* type inserts, pack of single insert and pack of ten inserts, are available. (The single pack is standard.)  
Please refer to the "Standard of inserts".

## NEGATIVE INSERTS WITH HOLE

Product Name	Type	Tolerance	Breaker Name and Cross Section	Rhombic 80°	Rhombic 55°	Square 90°	Triangular 60°	Rhombic 35°	Trigon 80°
STANDARD	Multi-corner Type Double Sided (Solid CBN)	G	Flat Top 	CNGA  ➔ B031		SNGA  ➔ B038	TNGA  ➔ B041		
	One-corner Type Single Sided	M	Flat Top 	CNMA  ➔ B031, B068					
	One-corner Type Single Sided	G	Flat Top 		DNGA  ➔ B036, B068	SNGA  ➔ B038, B069	TNGA  ➔ B041, B069	VNGA  ➔ B043, B070	

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CBN & PCD TURNING INSERTS

## 5° POSITIVE INSERTS WITH HOLE

Product Name	Type	Tolerance	Breaker Name and Cross Section	Rhombic 80°	Rhombic 55°	Square 90°	Triangular 60°	Rhombic 35°	Trigon 80°
NEW PETIT CUT	Multi-corner Type Single Sided	G	Flat Top 					NP-VBGW_02  ➔ B061	
	One-corner Type Single Sided		Flat Top 					NP-VBGW_01  ➔ B062	
	One-corner Type Single Sided With Breaker		R-F 					NP-VBGT_R-F  ➔ B077	

# CLASSIFICATION

## 7° POSITIVE INSERTS WITH HOLE

Product Name	Type	Tolerance	Breaker Name and Cross Section	Rhombic 80° 	Rhombic 55° 	Square 90° 	Triangular 60° 	Rhombic 35° 	Trigon 80° 
NEW PETIT CUT	Multi-corner Type Single Sided	G	Flat Top 	* NP-CCGW/B_02  ⊕ B049	* NP-DCGW_02  ⊕ B054		NP-TCGW_03  ⊕ B057	NP-VCGW_02  ⊕ B062	
	Multi-corner Type Single Sided With Wiper		Flat Top 	NP-CCGW_CW_02  ⊕ B050					
	Multi-corner Type Single Sided With Breaker		BF 	BF-CCGT_02  ⊕ B051	BF-DCGT_02  ⊕ B055				
	Multi-corner Type Single Sided With Breaker		BM 	BM-CCGT_02  ⊕ B051	BM-DCGT_02  ⊕ B055				
	One-corner Type Single Sided	M	Flat Top 	NP-CCMB_0  ⊕ B051					
	One-corner Type Single Sided With Breaker		Standard 	NP-CCMH  ⊕ B072					
	One-corner Type Single Sided	G	Flat Top 	NP-CCGW_0  ⊕ B051	NP-DCGW_0  ⊕ B056				
	One-corner Type Single Sided	M	Flat Top 	NP-CCMW_0  ⊕ B052	NP-DCMW_0  ⊕ B056				NP-WCMW_0  ⊕ B063
	One-corner Type Single Sided		Flat Top 	NP-CCMW  ⊕ B072					
	One-corner Type Single Sided With Breaker		R/L-F 		NP-DCMT_R/L-F  ⊕ B073				
	One-corner Type Single Sided With Breaker	G	R-F 					NP-VCGT_R-F  ⊕ B077	
STANDARD	Multi-corner Type Single Sided	G	Flat Top 	CCGW  ⊕ B052	DCGW  ⊕ B056		TCGW  ⊕ B057		
	One-corner Type Single Sided	M G	Flat Top 	CCMW  ⊕ B052, B072	DCMW  ⊕ B056, B073		TCMW TCGW  ⊕ B057, B074		WCMW  ⊕ B078

Note1) Two types of packs for \* type inserts, pack of single insert and pack of ten inserts, are available. (The single pack is standard.)  
Please refer to the "Standard of inserts".