

NIKKEN INSERT TIP (EXCLUSIVE FOR BORING ARBOR) (1)



Material	Steel	●	●	●				
	Stainless Steel	●	●					
	Cast Iron	●			●	●		
	Aluminium					●		
	High Speed finish for Cast Iron						●	
	Hardened Steel						●	
	High Speed finish for Aluminium							●

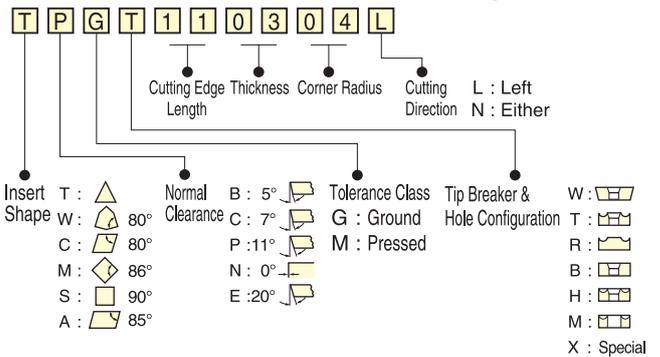
For the Boring of Large Diameter and Short Depth, the use of insert with large nose radius is recommended. The smaller nose radius inserts are ideal for smaller diameter boring or finishing operation.

Applicable Arbor	Dimension	Code No.	Material NOSE R	Coated Cermet		Cermet (w/o coating)		Carbide P	Carbide K		CBN	Diamond
				Grade		Grade		Grade	Grade		Grade	Grade
				C	T	E	F-NB*2 w/o breaker	F	B	D		
				PV90	T2000Z	NS530*5	TN90	ST10P	H1		KBN10B*6	KPD010
BCB12.7, BCB14.5		1MP-○2	0.2	●			●	●		●		
BCB19, BCB22, BCB29		3MS-○2	0.2	●			●	●	●*2	●	●	
ZMAC16-V, ZMAC20-V, ZMAC25-V for DJ Bit		3MP-○2	0.2		●	●		●	●*2	●	●	●
		3MP-○4	0.4		●						●	●
ZMAC32-V		4MP-○2	0.2		●	●		●	●*2	●		●
		4MP-○4	0.4		●				●*2	●	●	●
ZMAC42-V-ZMAC140-V BCB38, BCB48 DJ Bit, MCCZ130-V BAC130-V - BAC530-V		6MP-○2	0.2	●	●	●		●	●*2	●		●*4
		6MP-○4	0.4	●	●	●		●	●*2	●	●	●*4
		6MP-○8	0.8	●	●	●		●	●*2	●	●	●*4
BCB62, BCB82, BCB100		10MP-○2	0.2	●				●	●*2	●		
		10MP-○4	0.4	●				●	●*2	●	●	
		10MP-○8	0.8	●				●	●*2	●	●	

- ★Minimum quantity of CBN and Diamond: 1pcs, All other insert tip: 10pcs
- ★*2 "-NB" (w/o breaker) is recommended for cast iron.
- ★*3 Hole diameter of 6MP is φ2.8mm. M2562D (Optional tip clamp bolt) is required for the ISO standard insert tip with the hole diameter of φ3.3~φ3.5mm.
- ★*4 M2562D is necessary for 6MP-D (Diamond), because of the hole diameter is different.
- ★The ISO code No. surrounded with () is the Nikken original insert tip.
- ★*5 Changes it to NS9530 sequentially as soon as stock disappears.
- ★*6 Changes it to KBN510 sequentially as soon as stock disappears.

Please add the grade indication into ○, and add the insert tip material indication at the end off the Code No.
e.g. 6MP-C4 (PV90), 6MP-F4-NB (H1)

Code No. of ISO standard Insert Tip



PARTS LIST
INSERT TIP

NIKKEN INSERT TIP (EXCLUSIVE FOR BORING ARBOR) (2)



Material	Steel	●	●	
	Stainless Steel	●	●	
	Cast Iron	●	●	●

For the Boring of Large Diameter and Short Depth, the use of insert with large nose radius is recommended. The smaller nose radius inserts are ideal for smaller diameter boring or finishing operation.

Applicable Arbor	Dimension	Code No.	NOSE R	Coated Cermet	Coated Carbide M	Coated Carbide K
				Grade	PV90	AC630M
J10-5, J16-5		CC03-○2	0.2	●		
ZMAC32-VR, ZMAC42-VR, ZMAC55-VR		CC06-○4	0.4		●	●
		CC06-○8	0.8		●	●
RAC25E		CC07-○4	0.4		●	●
		CC07-○8	0.8		●	●
ZMAC70-VR, ZMAC85-VR, RAC25E (CC08), RAC32E		CC08-○4	0.4		●	●
		CC08-○8	0.8		●	●
RAC43 - RAC530 (Eccentric Bolt Type)		CN08-○8	0.8		●	
ZMAC100-VR, ZMAC140-VR, RAC43E - RAC100E		CC12-○4	0.4		●	●
		CC12-○8	0.8		●	●

★Minimum quantity of CBN and Diamond: 1pcs, All other insert tip: 10pcs
★The ISO code No. surrounded with () is the Nikken original insert tip.

Please add the grade indication into ○, and add the insert tip material indication at the end off the Code No.
e.g. 6MP-C4 (PV90) , 6MP-F4-NB (H1)

Code No. of ISO standard Insert Tip

T P G T 1 1 0 3 0 4 L

Cutting Edge Length Cutting Thickness Corner Radius Cutting Direction L : Left N : Either

Insert Shape	T :	Normal Clearance	B : 5°	Tolerance Class	Tip Breaker & Hole Configuration	W :
	W :		C : 7°	G : Ground	T :	
	C :		P : 11°	M : Pressed	R :	
	M :		N : 0°		B :	
	S :		E : 20°		H :	
	A :				M :	
					X : Special	

NIKKEN INSERT TIP (EXCLUSIVE FOR BORING ARBOR) (3)



Material	Steel	●	●			
	Stainless Steel	●				
	Cast Iron			●		
	Aluminium			●		
	High Speed finish for Cast Iron				●	
	Hardened Steel				●	
		Cermet (w/o coating)	Carbide P	Carbide K	CBN	
		Grade	T	E	F	B
		Material NOSE R	T12A	ST10P	HTi10	KBN10B*1
Applicable Arbor	Dimension	Code No.				
BCB29		3P-○2	0.2	●	●	●
BCB38, BCB48		5P-○4	0.4	●	●	●
BCB62, BCB82		7P-○4	0.4	●	●	●
		7P-○8	0.8		●	●
BCB100		10P-○4	0.4	●	●	●
		10P-○8	0.8		●	●

★Minimum quantity of CBN: 1pcs, All other insert tip: 10pcs ★*1 Changes it to **KBN510** sequentially as soon as stock disappears.
★The ISO code No. surrounded with () is the Nikken original insert tip.

Please add the grade indication into ○, and add the insert tip material indication at the end off the Code No. e.g. 10P-T4 (T12A)

Grade & Material

Grade	Grade Indication	Insert Tip Material Indication	Specification
Coated Cermet	C	PV90	Applicable for the medium roughing and finishing on the steel. Very stable cutting with coolant to be improved the heat resistance and the impact resistance.
		T2000Z	ZX coated suitable for the high speed finishing on the steel with long insert life. Very fine surface finish to be improved the impact resistance and the fracture resistance.
Coated Carbide M		AC630M	Very tough carbide M (base material) with the super FF coated. Excellent for the impact resistance and the fracture resistance for the stainless steel
Coated Carbide K		AC410K	Very tough carbide K (base material) with the super FF coated. Very stable cutting for the ductile cast iron and normal cast iron.
Cermet (w/o coating)	T	NS530	The general material for the steel and the cast iron with the heat resistance and the toughness.
		NS9530	New grade with tough and smooth top layer demonstrates amazing fracture resistance. Stable tool life due to incredible toughness. This is an upgraded version of NS530.
		T12A	Applicable for the roughing and finishing on the steel. Very stable cutting to be improved the heat resistance and the impact resistance.
Carbide P	E	ST10P	Applicable for the middle to high speed cutting on the steel and the steel casting.
Carbide K	F	H1	Excellent wear resistance and applicable for the cast iron, non-ferrous metal and the non-metal.
		HTi10	Toughness and the excellent wear resistance. Applicable for the cast iron, non-ferrous metal and the non-metal.
		KW10	Stable wear resistance and the fracture resistance. Applicable for the cast iron, non-ferrous metal and the non-metal.K10
CBN	B	KBN10B	Excellent for the fracture resistance and wear resistance. Suitable for the high performance and high accuracy cutting on the harden steel
		KBN510B	Excellent for the fracture resistance and wear resistance. This is an upgraded version of KBN10B. Suitable for the high performance and high accuracy cutting on the harden steel.
Diamond	D	KPD010	Suitable for the high speed cutting on the aluminium and the non-metal. Applicable for the cutting on the carbide, ceramics, glass fibere and the plastic also.