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



١		Steel											
۱		Stainless Steel											
	Material	Cast Iron Aluminium											
	Matorial	High Speed finish for Cast Iron											
		Hardened Steel											
١	High Speed finish for Aluminium												•
F	or the Boring of L	Coated Cermet Cermet (w/o coating			Carbide P	Carbide K		CBN	Diamond				
use of insert with large nose radius is recommended. The smaller nose radius inserts are ideal for smaller Grade					С	Т		E	F-NB * 2 w/o breaker	F	В	D	
diameter boring or finishing operation. Material				DV720	T15007	NS9530	TN90	ST10P	H1		KBN510	KPD010	
	Applicable Arbor	Dimension	Code No.	NOSE R	P V / Z U	113002	1459550	TINOU	3110	пі		KDN310	KPD010
	BCB12.7, BCB14.5	80° 1.59 5° ↓ φ3.175 φ3.175 (WBGT050102L)	1MP- 2	0.2	•			•	•		•		
	BCB19, BCB22, BCB29	1.59 5° \\ 1.59 \\ 5° \\ \sqrt{\frac{1}{5}}	3MS-⊜2	0.2	•			•	•	●*2	•	•	
	ZMAC16-V, ZMAC20-V, ZMAC25-V for DJ Bit	80° 1.59 5° ↓ 02.30 WBGT06010L	3MP-○2	0.2		•	•		•	●*2	•	•	•
			3MP-○4	0.4		•						•	•
	ZMAC32-V	80° 2.38 5° ↓ ↓ † φ2.30 WBGT08020L	4MP-○2	0.2	•	•	•		•	● *2	•		•
			4MP-○4	0.4	•	•				● *2	•	•	•
	ZMAC42-V-ZMAC140-V BCB38, BCB48 DJ Bit, MCCZ130-V BAC130-V - BAC530-V	3.18 11° + 3 \$\displays{4} \times 3 \\ \$\displays{4} \times 3 \\ \$\displays{2} \times 3 \\ \$\di	6MP-○2	0.2	•	•	•		•	●*2	•		•*4
			6MP-○4	0.4	•	•	•		•	●*2	•	•	•*4
		TPGT1103OL	6MP-○8	8.0	•	•	•		•	●*2	•	•	●*4
			10MP-\(\)2	0.2	•				•	●*2	•		
	BCB62, BCB82, BCB100		10MP-\(\)4	0.4	•				•	●*2	•	•	
		TPGT16T3OL	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~φ 3.5mm.
- ★*4 M2562D is necessary for 6MP-D (Diamond) , because of the hole diameter is
- ★The ISO code No. surrounded with () is the Nikken original insert tip.

add the insert tip material indication at the end off the Code No.

Please add the grade indication into \bigcirc , and e.g. 6MP-C4 (PV720), 6MP-F4-NB (H1)

Code No. of ISO standard Insert Tip T P G T 1 1 0 3 0 4 L Cutting Edge Thickness Corner Radius Cutting L: Left Direction N : Either Normal B: 5° → Tolerance Class IIIp breaker α ... → Hole Configuration T: □ M: □ M: Pressed C: ¬ B: □ B: □ M: \$\ightarrow\$ 86° S: \$\begin{array}{c} 90° A: \$\begin{array}{c} 85° \end{array}\$ E :20° 🔎 н : 🎞 M : 🚻 X : Special

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



	Steel			•			
Material	Stainless Steel	•	•				
	Cast Iron	•		•			
	Large Diameter and Short Depth ose radius is recommended. The			Coated Cermet	Coated Carbide M	Coated Carbide K	
	s are ideal for smaller diameter b		Grade	С			
		Material	PV720 AC630M AC410K				
Applicable Arbor	Dimension	Code No.	NOSE R	PV/20	ACOSOIVI	ACTION	
J10-5, J16-5	φ3.5 φ1.9 CCGT03010L	CC03-\(\)2	0.2	•			
ZMAC32-VR, ZMAC42-VR	2.38	CC06-O4	0.4		•	•	
ZMAC55-VR	6.35 φ2.8 CCMT06020N	CC06-\(8	0.8		•	•	
	3.18	CC07-O4	0.4		•	•	
RAC25E	7.94 03 .4 CCMT0803 OL	CC07-\(\)8	0.8		•	•	
ZMAC70-VR, ZMAC85-VR, RAC25E(CC08), RAC32E	3.97	CC08-\(\)4	0.4		•	•	
	9.525 + 4.4 CCMT09T30N	CC08-\(\)8	0.8		•	•	
RAC43 - RAC530 (Eccentric Bolt Type)	12.7 4.76 0° ↓ 12.7 05.16 (CNMM120408	CN08-\(\)8	0.8		•		
ZMAC100-VR, ZMAC140-VR	4.76	CC12-\(\)4	0.4		•	•	
RAC43E - RAC100E	12.7 ϕ 5.5 CCMT1204ON	CC12-\(\)8	0.8		•	•	

[★]Minimum quantity of CBN and Diamond: 1pcs, All other insert tip: 10pcs

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)

[★]The ISO code No. surrounded with () is the Nikken original insert tip.

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



	Steel				•		
	Stainless Steel	•					
Material	Cast Iron			•			
Iviaterial	Aluminium					•	_
	High Speed finish for C						
	Hardened Steel						•
				Cermet (w/o coating)	Carbide P	Carbide K	CBN
			Grade	т	E	F	В
			Material	T12A	ST10P	HTi10	KBN510
Applicable Arbor	Dimension	Code No.	NOSE R	1128	31101	111110	KBN310
BCB29	60° 43.969 1 5.76 (ΤΡΜR060102)	3P-⊜2	0.2	•	•	•	
BCB38, BCB48	60° 14° 3.18 06.35 11° 11° 11° 11° 11° 11° 11° 11° 11° 11	5P-⊜4	0.4	•	•	•	
BCB62, BCB82	60° 14° 3.18 11°	7P- ○4	0.4	•	•	•	•
DCD02, DCD02	13.87 TPMR1603OL	7P-⊜8	0.8		•	•	
BCB100	60° 14° 4.76 11°	10P-⊜4	0.4	•	•	•	•
BCB100	18.65 TPMR2204OL	10P-\(\)8	0.8		•	•	

Please add the grade indication into \bigcirc , 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		PV720	Applicable for the midium roughing and finishing on the steel. Very stable cutting with coolant to be improved the heat resistance and the impact resistance.					
Coated Cermet	С	T1500Z	ZX coaled 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	Coated Carbide K		Very tough carbide K (base material) with the super FF coated. Very stable cutting for the ductile cast iron and normal cast iron.					
	т	NS530	The general material for the steel and the cast iron with the heat resistence and the toughness.					
Cermet (w/o coating)		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	Carbide P E ST10P		Applicable for the middle to high speed cutting on the steel and the steel casting.					
		H1	Excellent wear resistance and applicable for the cast iron, non-ferrous metal and the non-metal.					
Carbide K	F	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		KBN10B	Excellent for the fracture resistance and wear resistance. Suitable for the high performance and high accuracy cutting on the harden steel					
CBN	В	KBN510	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.					

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