

THE NEW VALUE FRONTIER



Kyocera's new innovative CBN tools

MEGACOAT CBN

NEW

KBN10M/KBN25M/KBN65M
KBN10C/KBN25C

ADVANCING PRODUCTIVITY

Kyocera's new innovative CBN tools

MEGACOAT CBN

Introducing four new PVD coating materials that exhibit superior features compared to our popular KBN series.

NEW

KBN10M/KBN25M/KBN65M

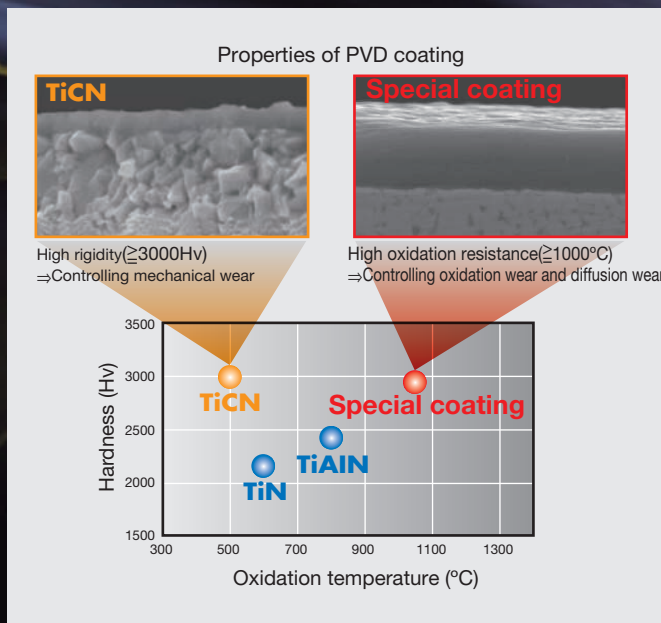
Special PVD coating CBN

Special PVD coating:
Controlling crater wear with superior oxidation resistance, and actualize stable machining.

KBN10C / KBN25C

TiCN PVD coating CBN

TiCN PVD coating:
Wear resistance and finish quality have been improved with high rigidity and excellent smoothness.



KBN25M for the interrupted machining of alloy steel (high hardness) / die steel (high hardness)

KBN25M

KBN25C for the continuous machining of alloy steel (high hardness)

KBN25C

KBN10M for die steel (high hardness)

KBN10M

KBN10C for the continuous machining of die steel (high hardness)

KBN10C

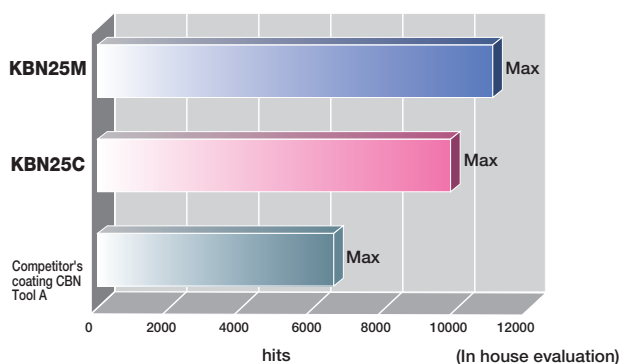
NEW

KBN65M for sintered metal (high hardness)

KBN65M

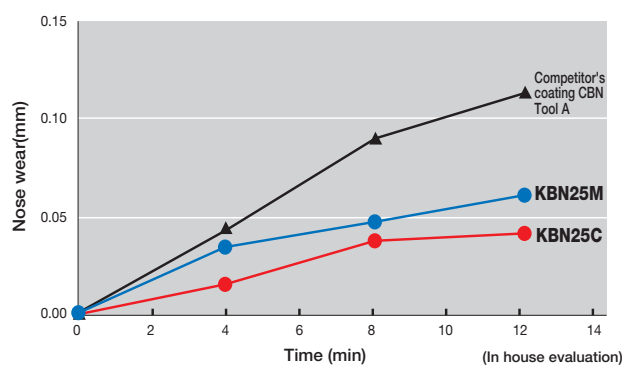
■ Comparison of fracture resistance (Light interruption)

Cutting condition:
Vc=150m/min, ap=0.2mm, f=0.15mm/rev, Dry
Work piece:
SCM415H(Carburizing and quenching:58~62HRC)With hole



■ Comparison of fracture resistance

Cutting condition:
Vc=200m/min, ap=0.2mm, f=0.1mm/rev, Wet
Work piece:
SCM415H(Carburizing and quenching:58~62HRC)



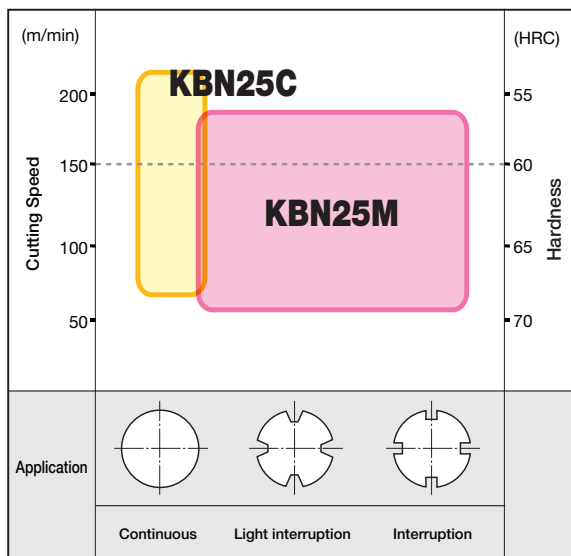
MEGACOAT CBN can provide extended tool life, stabilization and accelerated speeds.

Extended Tool Life

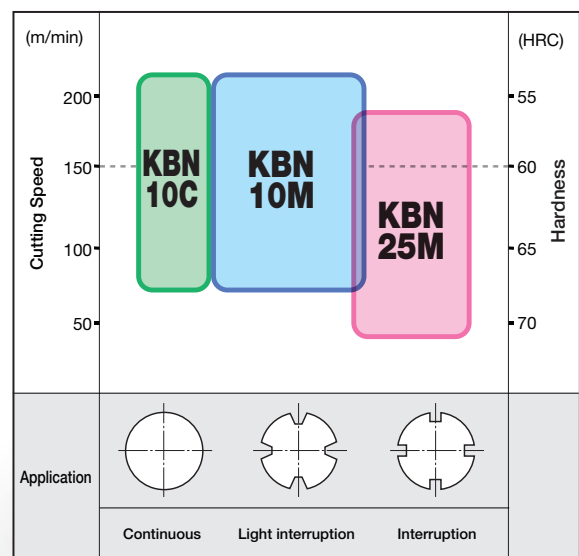
Stabilization

Accelerated Speeds

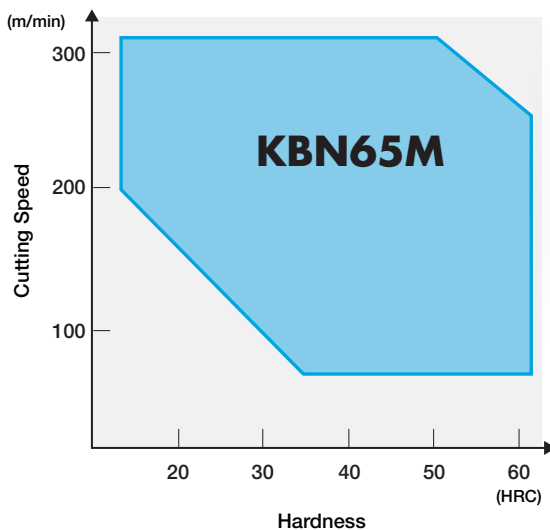
Alloy Steel (The layer of high hardness is thin.)



Die steel (The layer of high hardness is thick.)



Sintered Metal



Case Studies

<p>SCM420 60HRC</p> <ul style="list-style-type: none"> · Gear parts · Vc=90m/min · ap=0.5mm · f=0.12mm/rev · Wet⇒Dry · CNGA120412S01225ME (KBN25M) 	
<p>KBN25M</p>	<p>70 pcs/edge</p>
<p>Competitor B (CBN tool)</p>	<p>30 pcs/edge (Unstable)</p>
<p>KBN25M improved tool life up to 70 pieces/edge that is two times more than competitor's (CBN tool) B. Also, KBN25M has increased its tool life up to 250 pieces/edge by changing from wet machining to dry machining.</p>	
<p>(Evaluation by the user)</p>	

<p>SCM420 58HRC</p> <ul style="list-style-type: none"> · Gear parts · Vc=170m/min · ap=0.3mm · f=0.2mm/rev · Wet⇒Dry · CNGA120412S01215MEW (KBN25M) 	
<p>KBN25M</p>	<p>250 pcs/edge (Stable)</p>
<p>Competitor C (CBN tool)</p>	<p>250 pcs/edge (Unstable) <small>Many corrections</small></p>
<p>Competitor's (CBN tool) C required many corrections in order to accomplish 250 pieces/edge, and its tool life was not stable. KBN25M (with wiper edge) exhibited good wear resistance and the edge condition is capable of further extension of tool life.</p>	
<p>(Evaluation by the user)</p>	

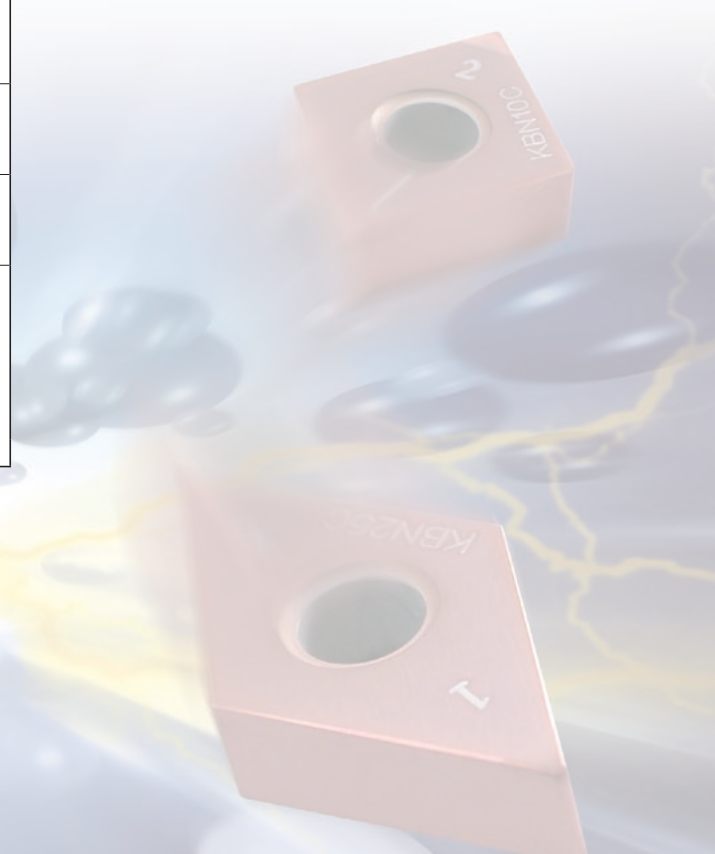
<p>SCM420 61~65HRC</p> <ul style="list-style-type: none"> · Ring gear · Vc=170m/min · ap=0.15mm · f=0.21mm/rev · Wet · SNGA120412 (KBN25M) 	
<p>KBN25M</p>	<p>More than 400 pcs/edge</p>
<p>Conventional D</p>	<p>200 pcs/edge</p>
<p>KBN25M has a good wear resistance, and it could extend its tool life two times more than conventional D. (Tool life is determined by the surface roughness.)</p>	
<p>(Evaluation by the user)</p>	

<p>SCr420H 58HRC</p> <ul style="list-style-type: none"> · Sun gear · Vc=100m/min · ap=0.5mm · f=0.1mm/rev · Dry · DNGA150408S01225ME (KBN25M) 	
<p>KBN25M</p>	<p>600 pcs/edge (Stable)</p>
<p>Competitor E (CBN tool)</p>	<p>400 pcs/edge</p>
<p>Competitor's E causes chattering when wear progresses, and the finished surface became worse. KBN25M has extended its tool life up to 1.5 times more, and the condition remained good without having chattering.</p>	
<p>(Evaluation by the user)</p>	

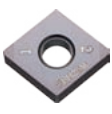
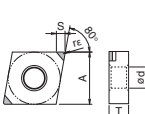
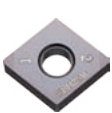
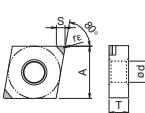
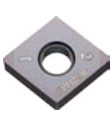
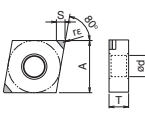
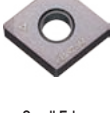
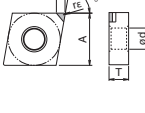

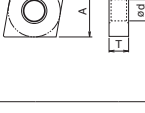



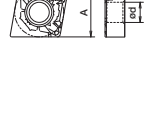
SCM420 50HRC <ul style="list-style-type: none"> • Gear parts • Vc=120m/min • ap=0.5~1.0mm • f=0.08mm/rev • Wet • TNGA160408S01730MET (KBN25C) 	
KBN25C	
Conventional F	
KBN25C has excelled in its wear resistance and improved its tool life up to 1.5 times more than conventional F.	
(Evaluation by the user)	

SCM420 (Vacuum carburizing and quenching) 60HRC <ul style="list-style-type: none"> • Gear shaft • Vc=140m/min • ap=0.3mm • f=0.14mm/rev • Dry • CNGA120408S01215MEW (KBN10M) 	
KBN10M	
Conventional G	
KBN10M (with wiper edge) has good relief wear and exhibits stable surface roughness; in addition, tool life improved three times more than before.	
(Evaluation by the user)	

SCr420H 58HRC <ul style="list-style-type: none"> • Sleeve • Vc=110~130m/min • ap=0.15mm • f=0.1mm/rev • Wet • VNGA160408S01225ME (KBN10M) 	
KBN10M	
Competitor H (CBN tool)	
KBN10M has reduced wear amount and exhibited good surface roughness; in addition, it could extend its tool life.	
(Evaluation by the user)	

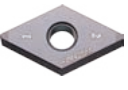
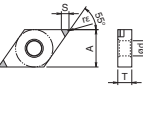
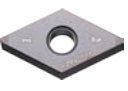
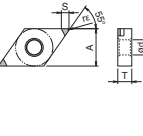
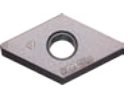
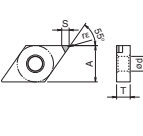
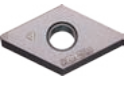
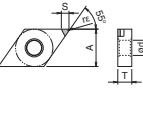
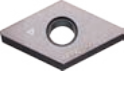
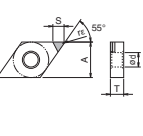

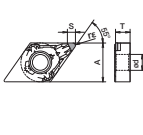


Stock Items


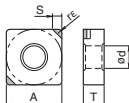

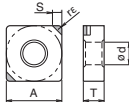

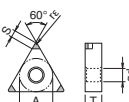

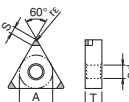

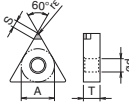

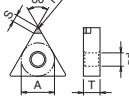

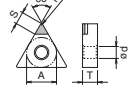

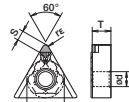
Edge Preparation			Indication of classification		K	Sintered Metal												
Symbol	Cutting edge condition	Indication		☉:Light Interruption / 1st choice ☺:Light Interruption / 2nd choice ●:Continuous / 1st choice ○:Continuous / 2nd choice	H	Hardened material (rough)						☺		☉				
T	Chamfer Cutting Edge	T01215	0.12mm X 15° Chamfer Cutting Edge			Hardened material (finishing)						○		●				
S	Chamfered +Honed Cutting Edge	S01035	0.10mm X 35° Chamfer+Honed			Hardened material (short-chips finishing)								●	☉			
Shape		Description		Previous Description		Edge Prep.	Dimension (mm)					No. of Edge	PVD coated CBN					
							A	T	ød	rε	S		KBN10C	KBN25C	KBN10M	KBN25M	KBN65M	
		CNGA	120404S01215MEW 120408S01215MEW 120412S01215MEW	CNGA	120404MEW 120408MEW 120412MEW	S01215	12.70	4.76	5.16	0.4 0.8 1.2	2.6 2.5 2.5	2	●	●	●	●		
		CNGA	120402S01225ME 120404S01225ME 120408S01225ME 120412S01225ME	CNGA	120402ME 120404ME 120408ME 120412ME	S01225	12.70	4.76	5.16	0.2 0.4 0.8 1.2	2.6 2.5 2.6 2.5	2	●	●	●	●		
		CNGA	120404T01215ME 120408T01215ME 120412T01215ME	- - -	T01215	12.70	4.76	5.16	0.4 0.8 1.2	2.5 2.6 2.5	2						●	●
		CNGA	120404S01730MET 120408S01730MET 120412S01730MET	CNGA	120404ME-T 120408ME-T 120412ME-T	S01730	12.70	4.76	5.16	0.4 0.8 1.2	2.5 2.6 2.5	2		●		●		
		CNGA	120402S01225SE 120404S01225SE 120408S01225SE 120412S01225SE	CNGA	120402SE 120404SE 120408SE 120412SE	S01225	12.70	4.76	5.16	0.2 0.4 0.8 1.2	2.6 2.5 2.6 2.5	1	●	●	●	●		
		CNGA	120404S01730SET 120408S01730SET 120412S01730SET	CNGA	120404SE-T 120408SE-T 120412SE-T	S01730	12.70	4.76	5.16	0.4 0.8 1.2	2.6 2.6 2.5	1		●		●		
		CNGA	120404S01225 120408S01225 120412S01225	CNGA	120404 120408 120412	S01225	12.70	4.76	5.16	0.4 0.8 1.2	3.7 3.6 3.6	1	●	●	●	●		
		CNGM	120404S00825BB1 120408S00825BB1 120412S00825BB1	CNGM	120404BB1 120408BB1 120412BB1	S00825	12.70	4.76	5.16	0.4 0.8 1.2	1.8 2.0 2.2	1			●	●		
		CNGM	120404S01225BB2 120408S01225BB2 120412S01225BB2	CNGM	120404BB2 120408BB2 120412BB2	S01225	12.70	4.76	5.16	0.4 0.8 1.2	2.2 2.4 2.6	1			●	●		
		CNGM	120404S01625BB3 120408S01625BB3 120412S01625BB3	CNGM	120404BB3 120408BB3 120412BB3	S01625	12.70	4.76	5.16	0.4 0.8 1.2	2.6 2.8 3.0	1			●	●		

●:Std. Stock (1 pc boxes)

Stock Items

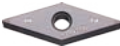
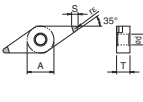

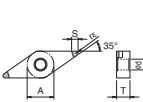

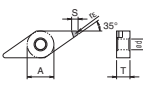

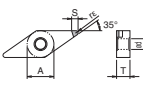

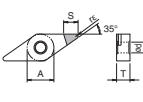



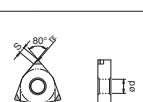

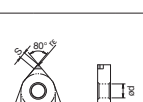

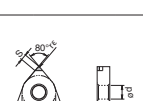
Edge Preparation				Indication of classification		K	Sintered Metal											
Symbol	Cutting edge condition	Indication		☉:Light Interruption / 1st choice ☺:Light Interruption / 2nd choice ●:Continuous / 1st choice ○:Continuous / 2nd choice		H	Hardened material (rough)						☺		☉			
T	Chamfer Cutting Edge	T01215	0.12mm X 15° Chamfer Cutting Edge				Hardened material (finishing)						○		●			
S	Chamfered +Honed Cutting Edge	S01035	0.10mm X 35° Chamfer+Honed				Hardened material (short-chips finishing)								●	☉		
Shape		Description				Previous Description		Edge Prep.	Dimension (mm)					No. of Edge	PVD coated CBN			
							A	T	ød	rε	S	KBN10C	KBN25C		KBN10M	KBN25M	KBN65M	
 Multi Edge		DNGA	150401S01225ME 150402S01225ME 150404S01225ME 150408S01225ME 150412S01225ME	- DNGA 150402ME 150404ME 150408ME -	S01225	12.70	4.76	5.16	0.1 0.2 0.4 0.8 1.2	2.2 2.5 2.3 1.9 1.9	2	●	●	●	●			
		DNGA	150404T01215ME 150408T01215ME 150412T01215ME	- - -	T01215	12.70	4.76	5.16	0.4 0.8 1.2	2.3 1.9 1.9	2						●	●
		DNGA	150604S01225ME 150608S01225ME 150612S01225ME	DNGA 150604ME 150608ME 150612ME	S01225	12.70	6.35	5.16	0.4 0.8 1.2	2.3 1.9 1.9	2	●	●	●	●			
		DNGA	150604T01215ME 150608T01215ME 150612T01215ME	- - -	T01215	12.70	6.35	5.16	0.4 0.8 1.2	2.3 1.9 1.9	2						●	●
 Multi Edge/Tough		DNGA	150404S01730MET 150408S01730MET 150412S01730MET	DNGA 150404ME-T 150408ME-T 150412ME-T	S01730	12.70	4.76	5.16	0.4 0.8 1.2	2.3 1.9 1.9	2		●			●		
		DNGA	150604S01730MET 150608S01730MET 150612S01730MET	DNGA 150604ME-T 150608ME-T 150612ME-T	S01730	12.70	6.35	5.16	0.4 0.8 1.2	2.3 1.9 1.9	2		●				●	
 Small Edge		DNGA	150401S01225SE 150402S01225SE 150404S01225SE 150408S01225SE 150412S01225SE	DNGA 150401SE 150402SE 150404SE 150408SE 150412SE	S01225	12.70	4.76	5.16	0.1 0.2 0.4 0.8 1.2	2.2 2.5 2.3 1.9 1.9	1	●	●	●	●			
		DNGA	150604S01225SE 150608S01225SE 150612S01225SE	DNGA 150604SE 150608SE 150612SE	S01225	12.70	6.35	5.16	0.4 0.8 1.2	2.3 1.9 1.9	1	●	●	●	●			
 Small Edge/Tough		DNGA	150404S01730SET 150408S01730SET 150412S01730SET	DNGA 150404SE-T 150408SE-T 150412SE-T	S01730	12.70	4.76	5.16	0.4 0.8 1.2	2.3 1.9 1.9	1		●			●		
		DNGA	150404S01225 150408S01225	DNGA 150404 150408	S01225	12.70	4.76	5.16	0.4 0.8	5.8 5.5	1	●	●	●	●			
 Chip Control		DNGM	150404S00825BB1 150408S00825BB1 150412S00825BB1	DNGM 150404BB1 150408BB1 150412BB1	S00825	12.70	4.76	5.16	0.4 0.8 1.2	1.6 1.6 1.8	1			●	●			
		DNGM	150404S01225BB2 150408S01225BB2 150412S01225BB2	DNGM 150404BB2 150408BB2 150412BB2	S01225	12.70	4.76	5.16	0.4 0.8 1.2	1.8 2.0 2.1	1			●	●	●		
		DNGM	150404S01625BB3 150408S01625BB3 150412S01625BB3	DNGM 150404BB3 150408BB3 150412BB3	S01625	12.70	4.76	5.16	0.4 0.8 1.2	2.2 2.5 2.5	1			●	●	●		

Stock Items


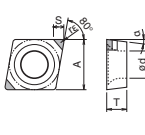

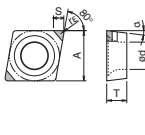
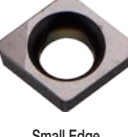
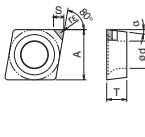

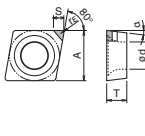

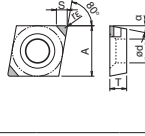

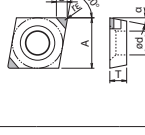

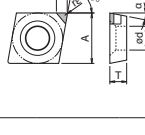

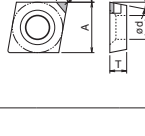

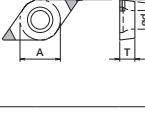

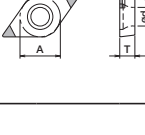

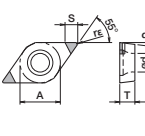
Edge Preparation				Indication of classification		K	Sintered Metal											
Symbol	Cutting edge condition	Indication		☉:Light Interruption / 1st choice ☺:Light Interruption / 2nd choice ●:Continuous / 1st choice ○:Continuous / 2nd choice		H	Hardened material (rough)						☺		☉			
T	Chamfer Cutting Edge	T01215	0.12mm X 15° Chamfer Cutting Edge				Hardened material (finishing)					○		●				
S	Chamfered +Honed Cutting Edge	S01035	0.10mm X 35° Chamfer+Honed				Hardened material (short-chips finishing)							●	☉			
Shape		Description		Previous Description		Edge Prep.	Dimension (mm)					No. of Edge	PVD coated CBN					
							A	T	ød	rε	S		KBN10C	KBN25C	KBN10M	KBN25M	KBN65M	
 Multi Edge		SNGA 120404S01225ME 120408S01225ME		SNGA 120404ME 120408ME		S01225	12.70	4.76	5.16	0.4 0.8	1.8 1.8	2	●	●	●	●		
		SNGA 120404T01215ME 120408T01215ME 120412T01215ME		-		T01215	12.70	4.76	5.16	0.4 0.8 1.2	1.8 1.8 2.2	2					●	●
 Multi Edge/Tough		SNGA 120404S01730MET 120408S01730MET 120412S01730MET		SNGA 120404ME-T 120408ME-T 120412ME-T		S01730	12.70	4.76	5.16	0.4 0.8 1.2	1.8 1.8 2.2	2		●		●		
 Multi Edge		TNGA 160401S01225ME 160402S01225ME 160404S01225ME 160408S01225ME 160412S01225ME		TNGA 160402ME 160404ME 160408ME 160412ME		S01225	9.525	4.76	3.81	0.1 0.2 0.4 0.8 1.2	2.6 2.5 2.4 2.4 2.1	3	●	●	●	●		
		TNGA 160404T01215ME 160408T01215ME 160412T01215ME		-		T01215	9.525	4.76	3.81	0.4 0.8 1.2	2.4 2.4 2.1	3					●	●
 Multi Edge/Tough		TNGA 160404S01730MET 160408S01730MET 160412S01730MET		TNGA 160404ME-T 160408ME-T 160412ME-T		S01730	9.525	4.76	3.81	0.4 0.8 1.2	2.4 2.4 2.1	3		●		●		
 Small Edge		TNGA 160401S01225SE 160402S01225SE 160404S01225SE 160408S01225SE 160412S01225SE		TNGA 160401SE 160402SE 160404SE 160408SE 160412SE		S01225	9.525	4.76	3.81	0.1 0.2 0.4 0.8 1.2	2.6 2.9 2.7 2.4 2.1	1	●	●	●	●		
 Small Edge/Tough		TNGA 160404S01730SET 160408S01730SET 160412S01730SET		TNGA 160404SE-T 160408SE-T 160412SE-T		S01730	9.525	4.76	3.81	0.4 0.8 1.2	2.7 2.4 2.1	1		●		●		
 Small Edge		TNGA 160404S01225 160408S01225		TNGA 160404 160408		S01225	9.525	4.76	3.81	0.4 0.8	3.8 3.5	1	●	●	●	●		
 Chip Control		TNGM 160404S00825BB1 160408S00825BB1 160412S00825BB1		TNGM 160404BB1 160408BB1 160412BB1		S00825	9.525	4.76	3.81	0.4 0.8 1.2	1.5 1.7 1.9	1			●	●		
		TNGM 160404S01225BB2 160408S01225BB2 160412S01225BB2		TNGM 160404BB2 160408BB2 160412BB2		S01225	9.525	4.76	3.81	0.4 0.8 1.2	1.9 2.1 2.2	1			●	●	●	
		TNGM 160404S01625BB3 160408S01625BB3 160412S01625BB3		TNGM 160404BB3 160408BB3 160412BB3		S01625	9.525	4.76	3.81	0.4 0.8 1.2	2.2 2.4 2.6	1			●	●	●	

●:Std. Stock (1 pc boxes)


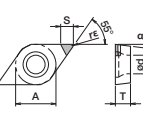

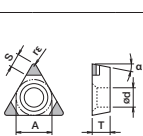

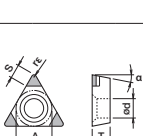

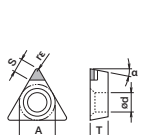

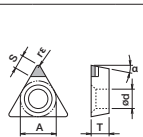

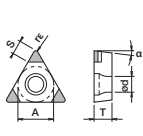

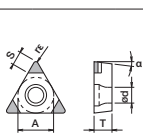

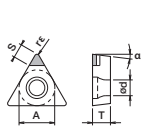

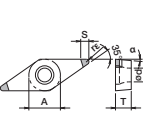

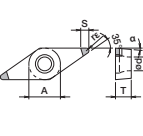

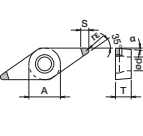

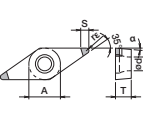
Stock Items

Edge Preparation				Indication of classification		K Sintered Metal							PVD coated CBN				
Symbol	Cutting edge condition	Indication		☉:Light Interruption / 1st choice ☺:Light Interruption / 2nd choice ●:Continuous / 1st choice ○:Continuous / 2nd choice	H	Hardened material (rough)					No. of Edge						
T	Chamfer Cutting Edge	T01215	0.12mm X 15° Chamfer Cutting Edge			Hardened material (finishing)											
S	Chamfered +Honed Cutting Edge	S01035	0.10mm X 35° Chamfer+Honed			Hardened material (short-chips finishing)											
						Dimension (mm)											
Shape		Description		Previous Description		Edge Prep.	Dimension (mm)										
							A	T	ød	re	S						
												KBN10C	KBN25C	KBN10M	KBN25M	KBN65M	
 Multi Edge		VNGA 160401S01225ME 160402S01225ME 160404S01225ME 160408S01225ME	VNGA 160402ME 160404ME -	S01225	9.525	4.76	3.81	0.1 0.2 0.4 0.8	2.6 2.3 2.0 1.8	2	●	●	●	●			
		VNGA 160404T01215ME 160408T01215ME	- -	T01215	9.525	4.76	3.81	0.4 0.8	2.0 1.8	2					●	●	
 Multi Edge/Tough		VNGA 160404S01730MET 160408S01730MET	VNGA 160404ME-T 160408ME-T	S01730	9.525	4.76	3.81	0.4 0.8	2.0 1.8	2	●	●	●	●			
 Small Edge		VNGA 160401S01225SE 160402S01225SE 160404S01225SE 160408S01225SE	VNGA 160401SE 160402SE 160404SE 160408SE	S01225	9.525	4.76	3.81	0.1 0.2 0.4 0.8	2.6 2.3 2.7 1.9	1	●	●	●	●			
 Small Edge/Tough		VNGA 160404S01730SET 160408S01730SET	VNGA 160404SE-T 160408SE-T	S01730	9.525	4.76	3.81	0.4 0.8	1.9 2.7	1		●		●			
 Small Edge		VNGA 160404S01225 160408S01225	VNGA 160404 160408	S01225	9.525	4.76	3.81	0.4 0.8	4.9 4.0	1	●	●	●	●			
 Multi Edge		VNGA 080404S01225ME 080408S01225ME 080412S01225ME	VNGA 080404ME 080408ME -	S01225	12.70	4.76	5.16	0.4 0.8 1.2	2.0 2.6 2.5	3	●	●	●	●			
		VNGA 080404T01215ME 080408T01215ME 080412T01215ME	- - -	T01215	12.70	4.76	5.16	0.4 0.8 1.2	2.0 2.6 2.5	3					●	●	
 Multi Edge/Tough		VNGA 080404S01730MET 080408S01730MET 080412S01730MET	- - -	S01730	12.70	4.76	5.16	0.4 0.8 1.2	2.0 2.6 2.5	3	●	●	●	●			
 Small Edge		VNGA 080404S01225SE 080408S01225SE	VNGA 080404SE 080408SE	S01225	12.70	4.76	5.16	0.4 0.8	2.0 1.9	1	●	●	●	●			
 Small Edge/Tough		VNGA 080404S01730SET 080408S01730SET	VNGA 080404SE-T 080408SE-T	S01730	12.70	4.76	5.16	0.4 0.8	2.0 1.9	1		●		●			


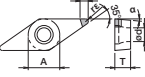
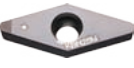
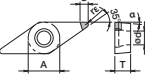

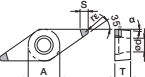

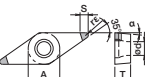

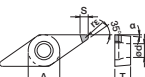

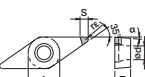



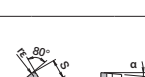
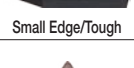

Stock Items

Edge Preparation			Indication of classification		K	Sintered Metal														
Symbol	Cutting edge condition	Indication		●:Light Interruption / 1st choice ○:Light Interruption / 2nd choice ●:Continuous / 1st choice ○:Continuous / 2nd choice	H	Hardened material (rough)														
T	Chamfer Cutting Edge	T00815	0.08mm X 15° Chamfer Cutting Edge			Hardened material (finishing)								●	●					
S	Chamfered +Honed Cutting Edge	S01035	0.10mm X 35° Chamfer+Honed			Hardened material (short-chips finishing)														
Shape		Description		Previous Description		Edge Prep.	Dimension (mm)						No. of Edge	PVD coated CBN						
							A	T	ød	α	re	S		KBN10C	KBN25C	KBN10M	KBN25M	KBN65M		
 Multi Edge		CCMW 060202T00815ME	CCMW 060202ME	T00815	6.35	2.38	2.8	7°	0.2	2.0	2				●	●				
		060204T00815ME	060204ME							0.4		1.9					●	●		
		060208T00815ME	060208ME						0.8	1.8										
 Multi Edge/Tough		CCMW 09T302T00815ME	CCMW 09T302ME	T00815	9.525	3.97	4.4	7°	0.2	2.0	2				●	●	●			
		09T304T00815ME	09T304ME						0.4	1.9							●	●		
		09T308T00815ME	09T308ME						0.8	1.8							●	●	●	
 Multi Edge/Tough		CCMW 09T304S01035MET	CCMW 09T304ME-T	S01035	9.525	3.97	4.4	7°	0.4	1.9	2				●	●				
		09T308S01035MET	-						0.8	1.8							●	●		
 Small Edge		CCMW 030102T00815SE	CCMW 030102SE	T00815	3.5	1.4	1.9	7°	0.2	1.4	1				●	●				
		030104T00815SE	030104SE						0.4	1.4								●	●	
		CCMW 040102T00815SE	CCMW 040102SE	T00815	4.3	1.8	2.3		0.2	1.4								●	●	
		040104T00815SE	040104SE						0.4	1.4									●	
		CCMW 060204T00815SE	CCMW 060204SE	T00815	6.35	2.38	2.8		0.4	1.9							●			
		CCMW 09T302T00815SE	CCMW 09T302SE	T00815	9.525	3.97	4.4		0.2	2.0					●					
		09T304T00815SE	09T304SE						0.4	1.9										
 Small Edge/Tough		CCMW 030102S01035SET	CCMW 030104SE-T	S01035	3.5	1.4	1.9	7°	0.2	1.4	1				●	●				
		030104S01035SET	-							0.4		1.4						●	●	
		CCMW 040102S01035SET	CCMW 040104SE-T	S01035	4.3	1.8	2.3		0.2	1.4					●	●				
		040104S01035SET	-						0.4	1.4					●	●				
 Multi Edge		CPGB 080204T00815ME	CPGB 080204ME	T00815	7.94	2.38	3.5	11°	0.4	1.9	2				●	●				
		090302T00815ME	CPGB 090302ME	T00815	9.525	3.18	4.5		0.2	1.9								●	●	
		090304T00815ME	090304ME						0.4	1.9										
 Multi Edge/Tough		CPGB 080204S01035MET	CPGB 080204ME-T	S01035	7.94	2.38	3.5	11°	0.4	1.9	2				●	●				
		080208S01035MET	-						0.8	2.2								●	●	
		CPGB 090304S01035MET	CPGB 090304ME-T	S01035	9.525	3.18	4.5		0.4	1.9					●	●				
		090308S01035MET	-						0.8	2.5					●	●				
 Small Edge		CPGB 090304T00815SE	CPGB 090304SE	T00815	9.525	3.18	4.5	11°	0.4	1.9	1				●					
 Small Edge/Tough		CPGB 080204S01035SET	CPGB 080204SE-T	S01035	7.94	2.38	3.5	11°	0.4	1.9	1					●				
 Multi Edge		DCMW 070202T00815ME	DCMW 070202ME	T00815	6.35	2.38	2.8	7°	0.2	1.9	2				●	●				
		070204T00815ME	070204ME						0.4	1.7								●	●	
		070208T00815ME	070208ME							0.8		1.9							●	●
		DCMW 11T302T00815ME	DCMW 11T302ME	T00815	9.525	3.97	4.4		0.2	1.9					●	●	●			
		11T304T00815ME	11T304ME						0.4	1.7					●	●				
		11T308T00815ME	11T308ME						0.8	1.9					●	●				
		11T312T00815ME	11T312ME						1.2	1.9						●	●			
 Multi Edge/Tough		DCMW 070202S01035MET	-	S01035	6.35	2.38	2.8	7°	0.2	1.9	2				●	●				
		070204S01035MET	-						0.4	1.7								●	●	
		070208S01035MET	-							0.8		1.9						●	●	
		DCMW 11T302S01035MET	DCMW 11T302ME-T	S01035	9.525	3.97	4.4		0.2	1.9					●	●				
		11T304S01035MET	11T304ME-T						0.4	1.7					●	●				
		11T308S01035MET	11T308ME-T						0.8	1.9					●	●				
		11T312S01035MET	-						1.2	1.9					●	●				

Stock Items

Edge Preparation				Indication of classification		K	Sintered Metal													
Symbol	Cutting edge condition	Indication		●:Light Interruption / 1st choice ○:Light Interruption / 2nd choice ●:Continuous / 1st choice ○:Continuous / 2nd choice		H	Hardened material (rough)													
T	Chamfer Cutting Edge	T00815	0.08mm X 15° Chamfer Cutting Edge				Hardened material (finishing)													
S	Chamfered +Honed Cutting Edge	S01035	0.10mm X 35° Chamfer+Honed				Hardened material (short-chips finishing)													
Shape		Description		Previous Description		Edge Prep.	Dimension (mm)						No. of Edge	PVD coated CBN						
							A	T	ød	α	rε	S		KBN10C	KBN25C	KBN10M	KBN25M	KBN65M		
		DCMW 070202T00815SE	DCMW 070202SE	DCMW 070204T00815SE	DCMW 070204SE	T00815	6.35	2.38	2.8	7°	0.2	1.9	1				●	●		
		DCMW 11T308T00815SE	DCMW 11T308SE				9.525	3.97	4.4		0.8	1.9								
		TPGB 110302T00815ME	TPGB 110302ME	110304T00815ME	110304ME	T00815	6.35	3.18	3.5	11°	0.2	2.3	3				●	●		
		110308T00815ME	110308ME											0.4	1.8					●
		TPGB 110302S01035MET	-	110304S01035MET	-	S01035	6.35	3.18	3.5	11°	0.2	2.3	3				●	●		
		110308S01035MET	-											0.4	1.8					●
		TPGB 080202T00815SE	TPGB 080202SE	080204T00815SE	080204SE	T00815	4.76	2.38	2.5	11°	0.2	1.8	1				●	●		
		090202T00815SE	TPGB 090202SE	090204T00815SE	090204SE		T00815	5.56	2.38		3.0	0.2		1.8						●
		110302T00815SE	TPGB 110302SE	110304T00815SE	110304SE	T00815	6.35	3.18	3.5		0.4	1.8							●	●
		160302T00815SE	TPGB 160302SE	160304T00815SE	160304SE	T00815	9.525	3.18	4.5		0.2	1.9							●	●
		TPGB 080202S01035SET	-	080204S01035SET	TPGB 080204SE-T	S01035	4.76	2.38	2.5	11°	0.2	1.8	1				●	●		
		090202S01035SET	-	090204S01035SET	TPGB 090204SE-T			5.56	2.38		3.0	0.2		1.8						●
		TPGW 160404T00815ME	-	160408T00815ME	-	T00815	9.525	4.76	4.4	11°	0.4	1.8	3				●	●		
														0.8	1.5					●
		TPGW 160404S01035MET	TPGW 160404ME-T	160408S01035MET	160408ME-T	S01035	9.525	4.76	4.4	11°	0.4	1.8	3				●	●		
														0.8	1.5					●
		TPGW 160408T00815SE	TPGW 160408SE			T00815	9.525	4.76	4.4	11°	0.8	1.5	1					●		
		VBGW 110302T00815ME	VBGW 110302ME	110304T00815ME	110304ME	T00815	6.35	3.18	2.8	5°	0.2	2.4	2				●	●	●	
		110308T00815ME	110308ME											0.4	2.0					●
		VBGW 160402T00815ME	VBGW 160402ME	160404T00815ME	160404ME	T00815	9.525	4.76	4.4			0.2	2.4	2				●	●	●
		160408T00815ME	160408ME										0.4		2.0					●
		VBGW 110302S01035MET	-	110304S01035MET	VBGW 110304ME-T	S01035	6.35	3.18	2.8		0.2	2.4	2				●	●		
		110308S01035MET	-									0.4		2.0					●	●
		VBGW 160402S01035MET	-	160404S01035MET	VBGW 160404ME-T	S01035	9.525	4.76	4.4		0.2	2.4	2				●	●		
		160408S01035MET	-									0.4		2.0					●	●

Stock Items

Edge Preparation			Indication of classification		K	Sintered Metal											
Symbol	Cutting edge condition	Indication		●:Light Interruption / 1st choice ○:Light Interruption / 2nd choice ●:Continuous / 1st choice ○:Continuous / 2nd choice	H	Hardened material (rough)											
T	Chamfer Cutting Edge	T00815	0.08mm X 15° Chamfer Cutting Edge			Hardened material (finishing)							●	●			
S	Chamfered +Honed Cutting Edge	S01035	0.10mm X 35° Chamfer+Honed			Hardened material (short-chips finishing)											
Shape		Description		Previous Description		Edge Prep.	Dimension (mm)					No. of Edge	PVD coated CBN				
							A	T	ød	α	rε		S	KBN10C	KBN25C	KBN10M	KBN25M
		VBGW 110302T00815SE 110304T00815SE 110308T00815SE	VBGW 110302SE 110304SE 110308SE	T00815	6.35	3.18	2.8	5°	0.2	2.8	1				●	●	
Small Edge		VBGW 160404T00815SE	VBGW 160404SE	T00815	9.525	4.76	4.4		0.4	2.0						●	
		VBGW 110308S01035SET	VBGW 110308SE-T	S01035	6.35	3.18	2.8	5°	0.8	1.7	1						●
		VCGW 080202T00815ME 080204T00815ME 080208T00815ME	VCGW 080202ME 080204ME 080208ME	T00815	4.76	2.38	2.3	7°	0.2	2.0	2				●	●	
		VCGW 080202S01035MET 080204S01035MET 080208S01035MET	- - -	S01035	4.76	2.38	2.3	7°	0.2	2.0	2				●	●	
		VCGW 080202T00815SE 080204T00815SE	VCGW 080202SE 080204SE	T00815	4.76	2.38	2.3	7°	0.2	2.4	1				●	●	
		VCGW 080208S01035SET	VCGW 080208SE-T	S01035	4.76	2.38	2.3	7°	0.8	1.8	1						●
		WBGW 060102T00815%-SE 060104T00815%-SE	WBGW 060102%-SE 060104%-SE	T00815	3.97	1.59	2.3	5°	0.2	1.9	1				L	L	
Small Edge		WBGW 080202T00815%-SE 080204T00815%-SE	WBGW 080202%-SE 080204%-SE	T00815	4.76	2.38			0.2	2.3		0.4	2.3				L
		WBGW 060102S01035%SET 060104S01035%SET	WBGW 060104%-SE-T	S01035	3.97	1.59	2.3	5°	0.2	1.9	1				L	L	
Small Edge/Tough		WBGW 080202S01035%SET 080204S01035%SET	WBGW 080204%-SE-T	S01035	4.76	2.38			0.2	2.3		0.4	2.3				L
		TBGN 060102T00815 060104T00815 060108T00815	TBGN 060102 060104 060108	T00815	3.97	1.59	-	5°	0.2	-	3				●	●	

●:Std. Stock (1 pc boxes) L:L-hand Only

ADVANCING PRODUCTIVITY

- KYOCERA, Contributing To Advancing Productivity -