

# New CBN Grade Series BHN / BH / BK

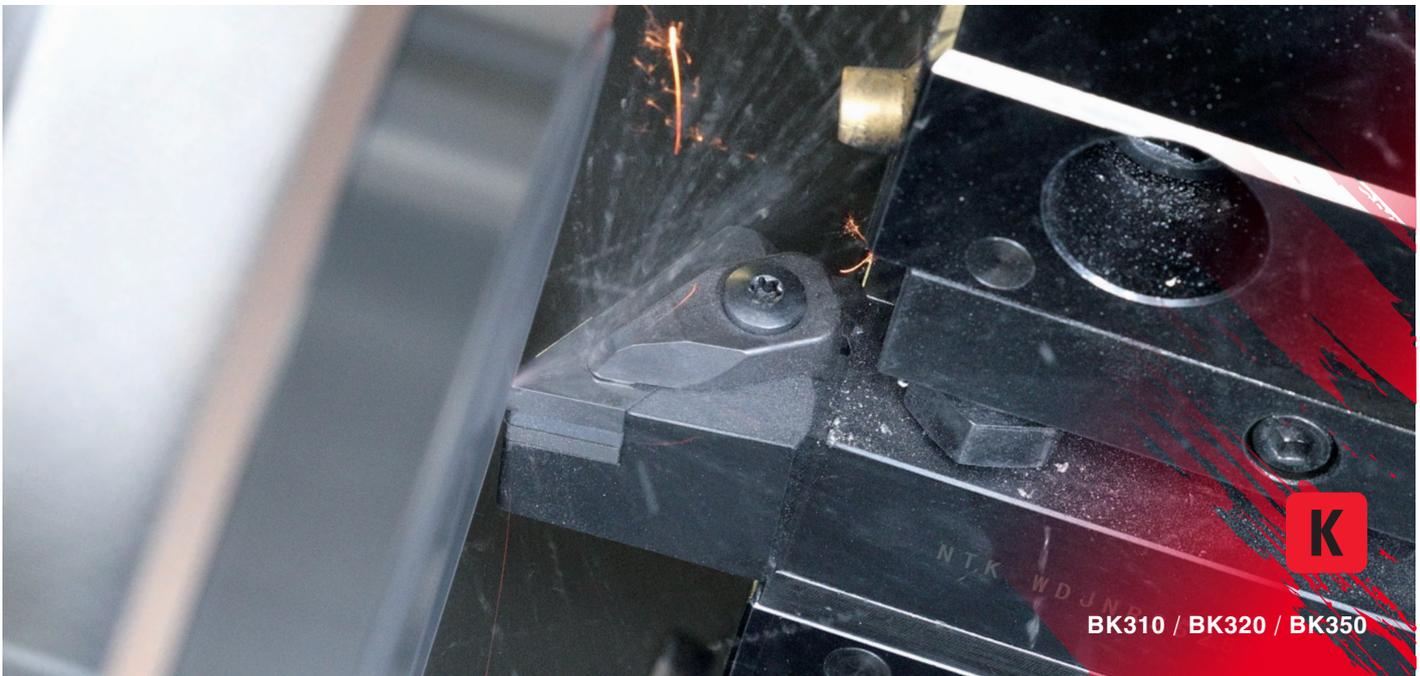


For turning Hardened steel, Cast iron, and Sintered powder metals



H

BHN320 / BHN330  
BH320 / BH330 / BH340



K

BK310 / BK320 / BK350

The New Era of NTK CBN Grades

*CERTainly* | but not only | *CERamics*  
Outstanding solutions for demanding applications

***For Hardened steel*** **H**



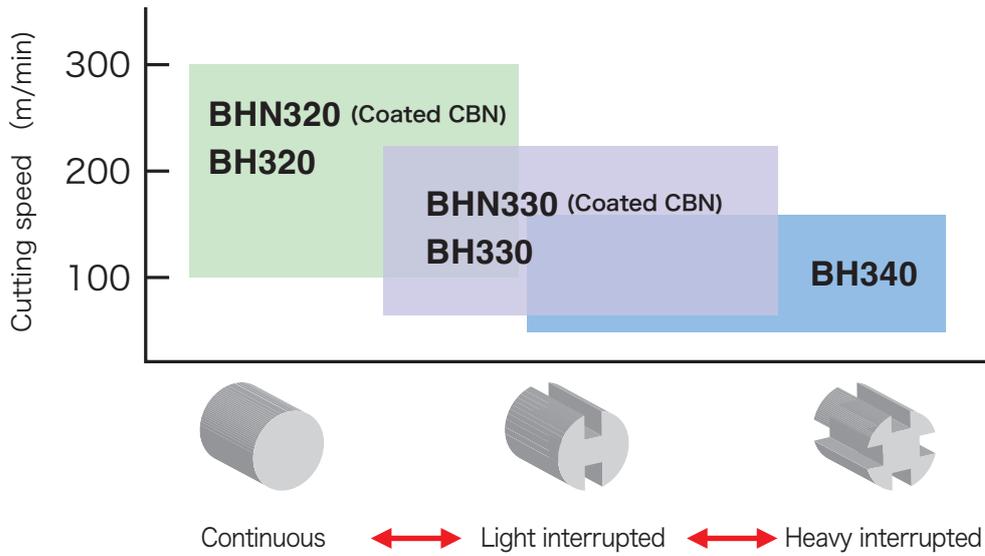
**Excellent crater wear resistance, New coating achieves amazingly long tool life!  
An extensive selection of cutting edge preparations tailored to meet a wide  
variety of turning needs.**



**Coated CBN** \_\_\_\_\_  
**BHN320 / BHN330**

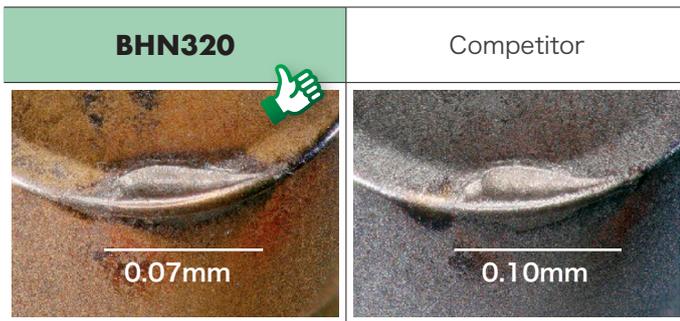
**Uncoated CBN** \_\_\_\_\_  
**BH320 / BH330 / BH340**

## Hardened steel - Finishing

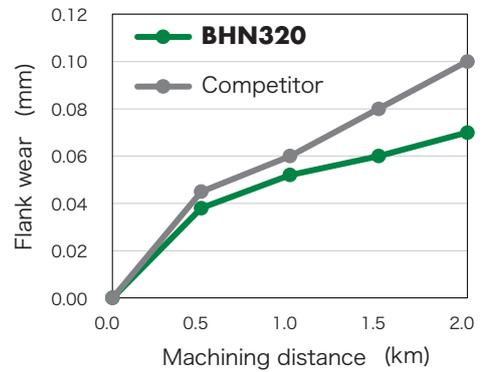


### | Coated CBN **BHN320**

The first recommended material for continuous to light interrupted machining, with a coating that has excellent wear resistance.

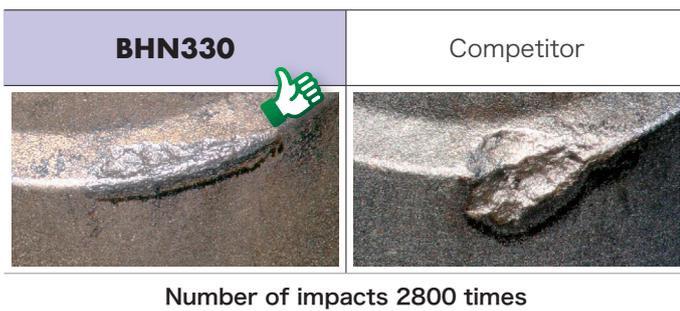


Alloy steel (HRc62)  
 $v_c=150\text{m/min}$ ,  $f=0.1\text{mm/rev}$ ,  $a_p=0.2\text{mm}$ , Continuous

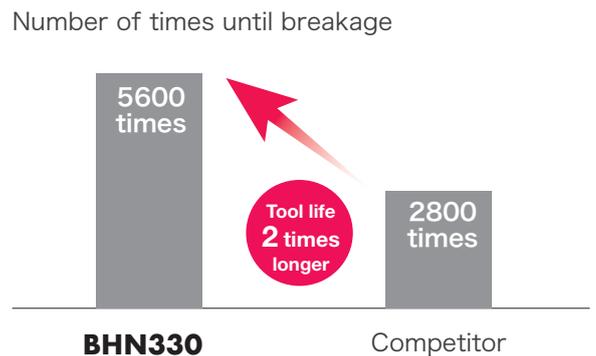


### | Coated CBN **BHN330**

A multi-layer coating with excellent wear resistance and chipping resistance is used, making this a versatile material that can be used for continuous to interrupted machining.

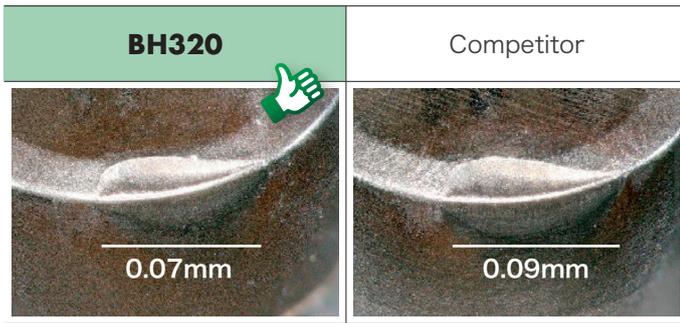


Alloy steel (HRc62)  
 $v_c=75\text{m/min}$ ,  $f=0.1\text{mm/rev}$ ,  $a_p=0.1\text{mm}$ , Heavy interrupted

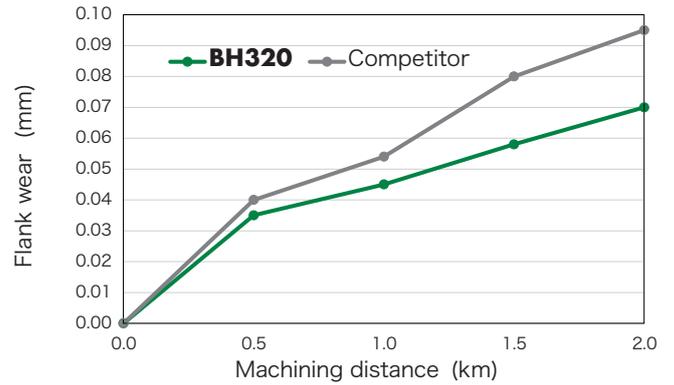


## | Uncoated CBN **BH320**

**CBN is bonded with a special binder, providing excellent wear resistance at high speeds and continuous cutting.**

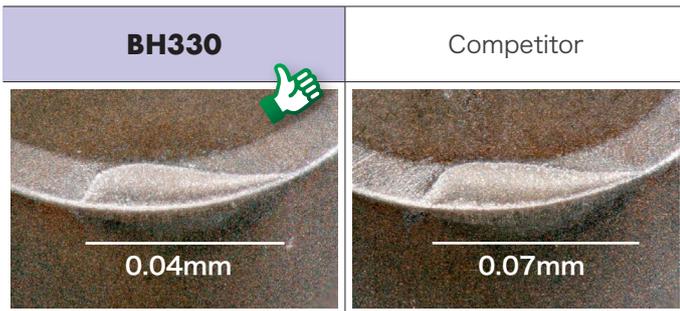


Alloy steel (HRc62)  
 $v_C=150\text{m/min}$ ,  $f=0.1\text{mm/rev}$ ,  $a_p=0.2\text{mm}$ , Continuous

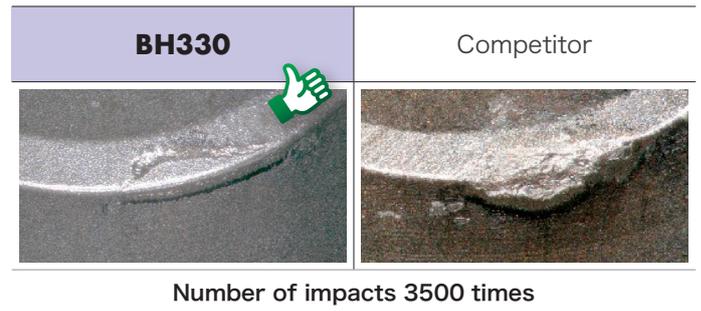


## | Uncoated CBN **BH330**

**A general-purpose material that exhibits excellent wear resistance and fracture resistance in continuous to heavy interrupted applications.**



Alloy steel (HRc62)  
 $v_C=150\text{m/min}$ ,  $f=0.1\text{mm/rev}$ ,  $a_p=0.2\text{mm}$ ,  
 After processing 0.7km

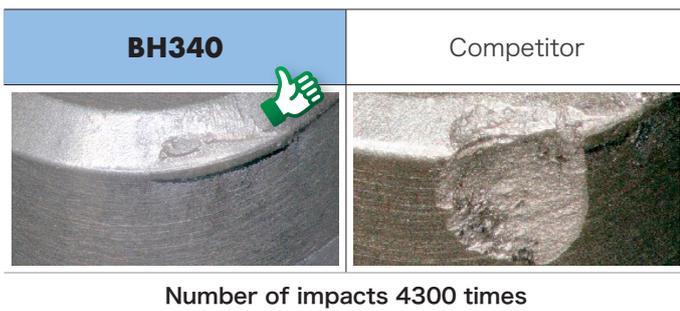


Alloy steel (HRc62)  
 $v_C=150\text{m/min}$ ,  $f=0.1\text{mm/rev}$ ,  $a_p=0.2\text{mm}$ , Heavy interrupted

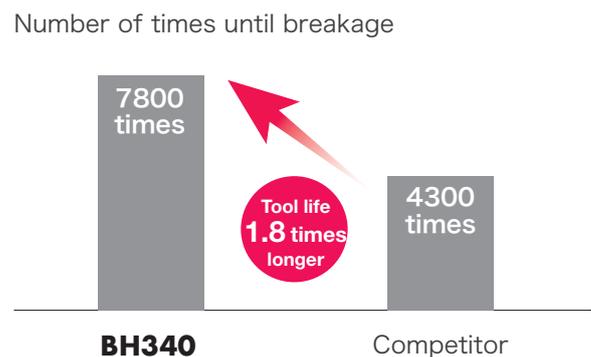


## | Uncoated CBN **BH340**

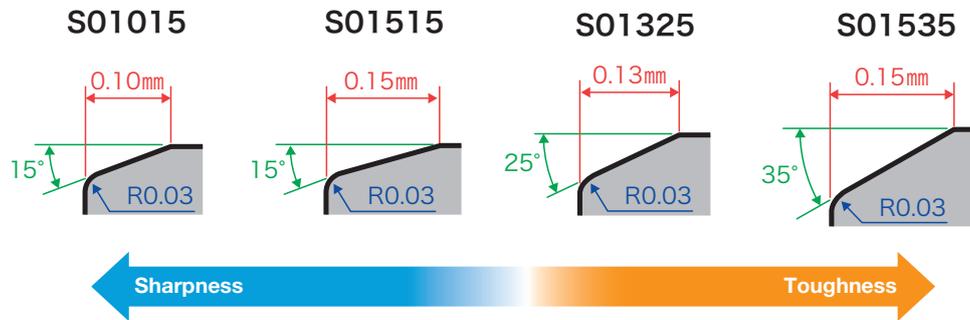
**High resistance to chipping and fracture, highly recommended for heavy interrupted cutting.**



Alloy steel (HRc62)  
 $v_C=75\text{m/min}$ ,  $f=0.1\text{mm/rev}$ ,  $a_p=0.1\text{mm}$ , Heavy interrupted



## Cutting edge preparation according to processing purposes



## Recommended cutting conditions

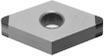
●: First recommendation  
○: Second recommendation

Interruption length	Recommended material	Cutting speed	Feed	D.O.C	Coolant	
		(m/min)	(mm/rev)	(mm)	DRY	WET
Continuous cutting	BHN320 (Coated CBN) BH320	100 to 300	up to 0.2	up to 0.5	○	●
Light interrupt cutting	BHN330 (Coated CBN) BH330	75 to 225	up to 0.15		●	○
Heavy interrupted cutting	BH340	50 to 150	up to 0.1		●	○



Lineup: Negative insert



Shape	Item number	Coated BHN320	BH320	Coated BHN330	BH330	BH340	Wiper	Length of Edge	corner R	No. of corners	IC mm	S mm
								mm	mm			
	CNGA120402PQS01015		●					2.3	0.2	4	12.7	4.76
	CNGA120404PQS01015	●	●					2.3				
	CNGA120404PQS01325	●		●	●	●		2.3				
	CNGA120404PQS01535					●		2.3	0.4			
	CNGA120404QWS01015	●					Yes	2.3				
	CNGA120404QWS01535		●				Yes	2.3				
	CNGA120408PQS01015	●	●					2.2				
	CNGA120408PQS01325	●		●	●	●		2.2	0.8			
	CNGA120408PQS01535			●		●		2.2				
	CNGA120408QWS01015	●	●				Yes	2.2				
	CNGA120412PQS01015	●	●	●				2.4				
	CNGA120412PQS01325			●	●			2.4	1.2			
	CNGA120412PQS01535					●		2.4				
	CNGA120412QWS01015	●					Yes	2.4				
CNGA120416PQS01325			●				3.3	1.6				
	DNGA150402PQS01015		●					2.7	0.2	4	12.7	4.76
	DNGA150404PQS01325		●	●	●			2.5	0.4			
	DNGA150404PQS01015	●	●					2.5				
	DNGA150404PQS01535					●		2.5				
	DNGA150408PQS01015	●	●					2.1	0.8			
	DNGA150408PQS01325			●	●			2.1				
	DNGA150408PQS01535			●		●		2.1				
	DNGA150412PQS01015	●	●	●				2	1.2			
	DNGA150412PQS01325	●		●	●			2				
	DNGA150412PQS01535	●		●		●		2				
	DNGA150416PQS01325				●			3.4	1.6			
	DNGA150612PQS01015		●					2	1.2	8	6.35	4.76
	SNGA120408PES01015		●			●		2.4	0.8			
	SNGA120412PES01535		●					2.4	1.2			
	TNGA160401PHS01015	●						2.4	0.1	6	9.525	4.76
	TNGA160401PHS01535					●		2.4				
	TNGA160402PHS01015		●					2.3	0.2			
	TNGA160402PHS01325					●		2.3				
	TNGA160402PHS01535	●						2.3				
	TNGA160404PHS01015	●	●			●		2.2	0.4			
	TNGA160404PHS01325	●	●	●	●			2.2				
	TNGA160404PHS01535			●		●		2.2				
	TNGA160408PHS01015	●	●	●	●	●		1.9	0.8			
	TNGA160408PHS01325			●	●			1.9				
	TNGA160408PHS01535	●				●		1.9				
	TNGA160412PHS01015	●						2.4	1.2			
	TNGA160412PHS01325	●		●				2.4				
TNGA160412PHS01535					●		2.4					
	VNGA160401PQS01015		●					3.7	0.1	4	9.525	4.76
	VNGA160401PQS01535					●		3.7				
	VNGA160402PQS01015	●	●					3.5	0.2			
	VNGA160402PQS01325	●		●	●			3.5				
	VNGA160402PQS01535					●		3.5				
	VNGA160404PQS01015	●	●	●				3.1	0.4			
	VNGA160404PQS01325	●		●	●	●		3.1				
	VNGA160404PQS01535					●		3.1				
	VNGA160408PQS01015	●	●					2.2	0.8			
	VNGA160408PQS01325	●		●	●			2.2				
VNGA160408PQS01535					●		2.2					

Lineup: Positive insert



Shape	Item number	Coated	BH320	Coated	BH330	BH340	Wiper	Length of Edge	corner R	No. of corners	IC	S
		BHN320		BHN330				mm	mm		mm	mm
	CCGW060204PDS01015		●		●	●		2.3	0.4	2	6.35	2.38
	CCGW09T302PDS01515		●					2.3	0.2		9.525	3.97
	CCGW09T304PDS01015		●					2.3	0.4			
	CCGW09T304PDS01535					●		2.3				
	CCGW09T308PDS01535						●		2.2	0.8		
	DCGW070202PDS01015		●					2.7	0.2	2	6.35	2.38
	DCGW070204PDS01015		●					2.5	0.4			
	DCGW070204PDS01535					●		2.5				
	DCGW11T302PDS01015		●					2.7	0.2	2	9.525	3.97
	DCGW11T304PDS01015		●					2.5	0.4			
	DCGW11T304PDS01535						●		2.5			
	DCGW11T308PDS01015		●					2.1	0.8			
	TPGN160304PTS01535					●		2.2	0.4	3		
		TPGW110304PTS01015		●				2.2	0.4	3	6.35	3.18
		TPGW110304PTS01325		●		●	●	2.2				
TPGW110304PTS01535						●	2.2					
TPGW110308PTS01015			●				1.9	0.8				
TPGW110308PTS01325					●	●	1.9					
TPGW110308PTS01535			●			●	1.9					
TPGW110312PTS01325			●				2.4	1.2				
	VBGW160404PDS01325		●					3.1	0.4	2	9.525	4.76
	VCGW080204PDS01015		●					3.1			4.76	2.38
	VCGW110304PDS01015		●					3.1			6.35	3.18
	VCGW110304PDS01535					●		3.1				
	VCGW110308PDS01535						●		2.2	0.8		
	VCGW110312PDS01535			●					3	1.2		
	VCGW160404PDS01015		●						3.1	0.4	9.525	4.76

Workpiece condition



Continuous



Light interrupted



Heavy interrupted

Insert shape and size

Edge preparation

C N G A 1 2 0 4 0 8 P Q S 0 1 3 2 5

Brazed type

Code*	S	D	T	Q	H	E
Number of corner	1	2	3	4	6	8

\*"W" means "Wiper insert".



***For Cast Iron*** 

***For Sintered Alloy*** 

**Excellent cutting edge sharpness provides excellent surface quality and machining accuracy**

**High CBN content provides excellent wear resistance and long tool life**

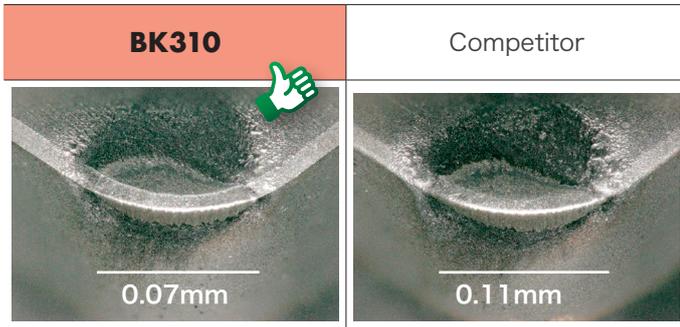


**Uncoated CBN**

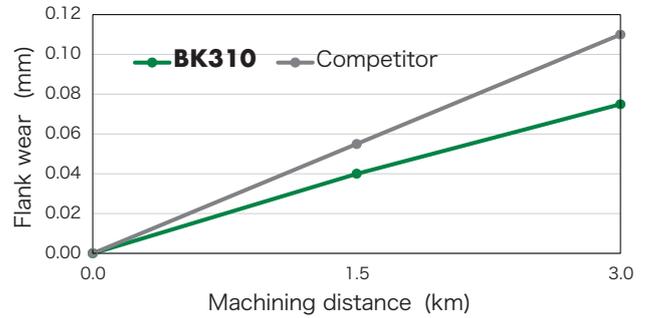
**BK310 / BK320 / BK350**

# Uncoated CBN BK310 / BK320

High CBN content provides stable wear resistance in high-speed turning of Gray cast iron and sintered alloys. Fine particle size provides excellent edge sharpness and is effective in suppressing burrs.

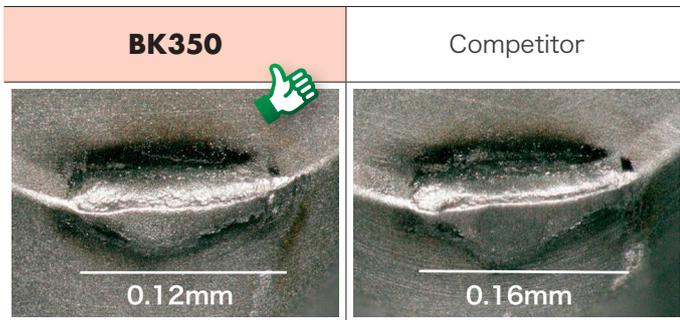


Gray cast iron (FC300)  
 $v_C=500\text{m/min}$ ,  $f=0.3\text{mm/rev}$ ,  $a_p=0.3\text{mm}$  After processing 3Km

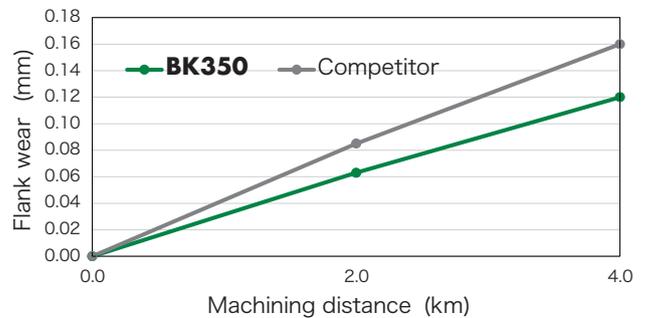


# Uncoated CBN BK350

General-purpose material with excellent wear resistance and chipping resistance compared to ductile cast iron for continuous to heavy interrupted use.

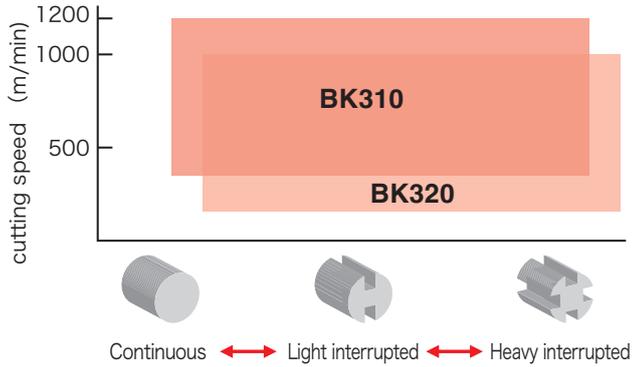


Ductile cast iron (FCD600)  
 $v_C=300\text{m/min}$ ,  $f=0.1\text{mm/rev}$ ,  $a_p=0.2\text{mm}$  After processing 4Km



## Application area for turning

### Cast iron - Finishing

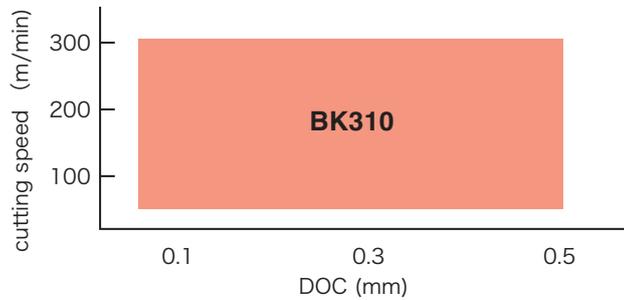


#### Recommended cutting conditions

●: First recommendation  
○: Second recommendation

Grade	Cutting speed	Feed (mm/rev)	D.O.C (mm)	Coolant	
	(m/min)			DRY	WET
BK310 BK320	400 to 1,200	up to 0.5	up to 2.0	○	●

### Sintered powder metal

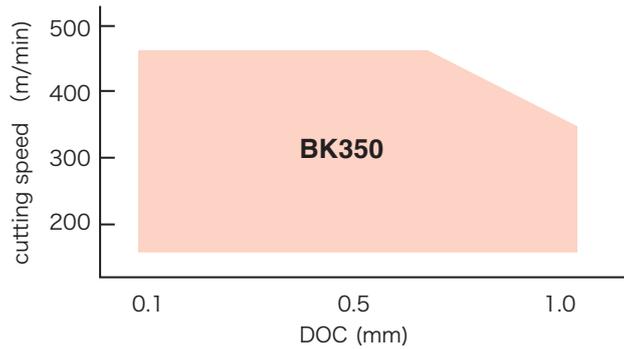


#### Recommended cutting conditions

●: First recommendation  
○: Second recommendation

Grade	Cutting speed	Feed (mm/rev)	D.O.C (mm)	Coolant	
	(m/min)			DRY	WET
BK310	40 to 300	up to 0.5	up to 0.5	○	●

### Ductile cast iron - Finishing

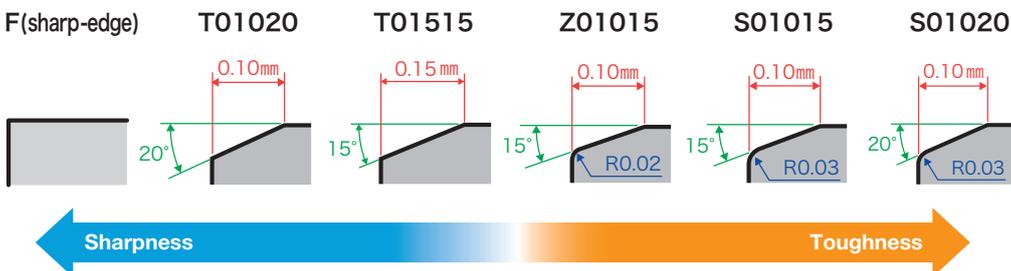


#### Recommended cutting conditions

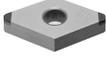
●: First recommendation  
○: Second recommendation

Grade	Cutting speed	Feed (mm/rev)	D.O.C (mm)	Coolant	
	(m/min)			DRY	WET
BK350	100 to 450	up to 0.2	up to 1.0	●	○

#### Cutting edge preparation according to processing purposes



## Lineup: Negative insert

Shape	Item number	BK310	BK320	BK350	Wiper	Length of Edge		No. of corners	IC mm	S mm	
						mm	corner R mm				
	CNGA120404PQT01020	●		●		2.3	0.4	4	12.7	4.76	
	CNGA120404PQF (sharp edge)	●				2.3					
	CNGA120408PQT01020	●		●		2.2	0.8				
	CNGA120408PQS01020		●			2.2					
	CNGA120408PQF (sharp edge)	●				2.2					
	CNGA120408QWS01015			●	Yes	2.2	1.2				
	CNGA120412PQT01020	●		●		2.4					
	CNGA120412PQS01020		●			2.4					
	CNGA120412PQF (sharp edge)	●				2.4	1.6				
	CNGA120416PQT01020	●				3.3					
	DNGA150404PQT01020	●		●		2.5	0.4	4	12.7	6.35	
	DNGA150404PQF (sharp edge)	●				2.5					
	DNGA150408PQT01020	●		●		2.1	0.8				
	DNGA150408PQS01020		●			2.1					
	DNGA150408PQF (sharp edge)	●				2.1					
	DNGA150412PQT01020	●		●		2	1.2				
	DNGA150612PQT01020	●				2					
	DNGA150412PDF (sharp edge)	●				2	1.2	2			
	SNGA120408PET01020	●				2.4	0.8	8			
	SNGA120412PET01020	●				2.4	1.2				
	TNGA160404PHT01020	●		●		2.2	0.4	6	9.525	4.76	
	TNGA160404PTF (sharp edge)	●				2.2					
	TNGA160408PFT01020	●		●		1.9	0.8				
	TNGA160408PTF (sharp edge)	●				1.9					
	TNGA160412PHT01020	●		●		2.4	1.2				
	TNGA160412PHF (sharp edge)	●				2.4					
	VNGA160404PQT01020	●		●		3.1	0.4	4			
	VNGA160408PQT01020	●		●		2.2	0.8				
	VNGA160412PQT01020	●		●		3	1.2				

Insert shape and size

Edge preparation

C N G A 1 2 0 4 0 4 P Q T 0 1 0 2 0

P : Brazed type

Code *	S	D	T	Q	H	E
Number of corner	1	2	3	4	6	8

\*"W" means "Wiper insert".



**Lineup: Positive insert**

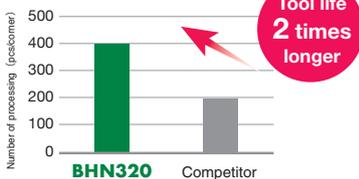
Shape	Item number	BK310	BK320	BK350	Wiper	Length of Edge	corner R	No. of corners	IC	S
						mm	mm		mm	mm
	CCGW060204PDF (sharp edge)	●				2.3	0.4	2	6.35	2.38
	SCGW09T304PQZ01015	●				2.4	0.4	4	9.525	3.97
	TPGN110304PTT01020	●				2.2	0.4	3	6.35	3.18
	TPGN110308PTT01020	●				2.2	0.8		9.525	
	TPGN160308PTT01020	●				2.2				
	TPGW110304PTT01020	●				2.2	0.4	3	6.35	
	TPGW110304PTT01515	●				2.2				
	TPGW110308PTT01020	●				1.9	0.8			

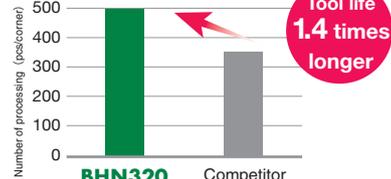
Case study

H

Coated CBN

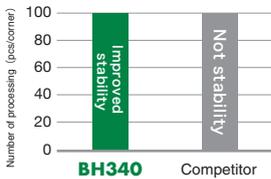
BHN320 / BHN330

Component	Automotive parts	
Insert	VNGA160408PQS01015	
Grade	<b>BHN320</b>	
Workpiece material	Carbon steel (HRc60)	
Workpiece image		
cutting conditions	Cutting speed (m/min)	150
	Feed (mm/rev)	0.12
	D.O.C. (mm)	0.2
	Coolant	WET
Result	 <p>Conventionally, Competitor's CBN would reach the end of its <b>tool life</b> due to a deterioration in the machined surface roughness, but <b>BHN320</b> suppresses notch wear and <b>achieved double tool life</b>.</p>	

Component	Gear	
Insert	DNGA150412PQS01015	
Grade	<b>BHN320</b>	
Workpiece material	Alloy steel (HRc55-58)	
Workpiece image		
cutting conditions	Cutting speed (m/min)	146
	Feed (mm/rev)	0.08
	D.O.C. (mm)	0.35
	Coolant	WET
Result	 <p><b>BHN320</b> significantly improved surface quality and achieved <b>1.4 times longer tool life</b> compared to conventional CBN, leading to increased productivity and cost savings.</p>	

Uncoated

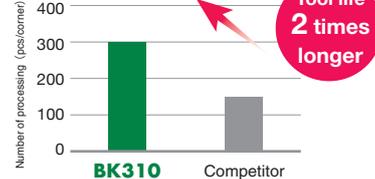
BH320 / BH330 / BH340

Component	Automotive parts	
Insert	DNGA150412PQS01535	
Grade	<b>BH340</b>	
Workpiece material	Alloy steel (HRc62)	
Workpiece image		
cutting conditions	Cutting speed (m/min)	100
	Feed (mm/rev)	0.1
	D.O.C. (mm)	0.1
	Coolant	DRY
Result	 <p>Conventional CBN frequently suffered from sudden chipping, but <b>BH340</b> can be <b>stably machined up to a certain point</b>.</p>	

K

Uncoated

BK310 / BK320 / BK350

Component	Automotive parts	
Insert	CNGA120404PQF	
Grade	<b>BK310</b>	
Workpiece material	Sintered alloy	
Workpiece image		
cutting conditions	Cutting speed (m/min)	110
	Feed (mm/rev)	0.1
	D.O.C. (mm)	0.15
	Coolant	WET
Result	 <p><b>BK310</b> demonstrates outstanding sharpness and resistance to edge chipping during high-speed turning of sintered alloys, <b>delivering twice the tool life</b> compared to competitor products.</p>	

Case study

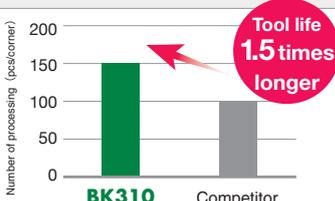


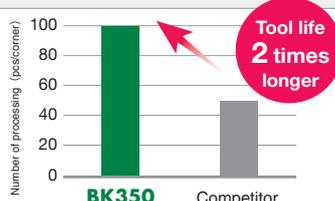
Uncoated

# BK310 / BK320 / BK350

Component		Flywheel
Insert		CNGA120404PQT01020
Grade		<b>BK310</b>
Workpiece material		Gray cast iron (FC250)
Workpiece image		
		
cutting conditions	Cutting speed (m/min)	420
	Feed (mm/rev)	0.18
	D.O.C. (mm)	0.5
	Coolant	DRY
Result		 <p><b>BK310</b> offers excellent sharpness and edge chipping resistance during high-speed turning of standard cast iron, achieving a tool life 1.3 times longer than conventional CBN.</p>

Component		Bearing housing
Insert		VNGA160404PQT01020
Grade		<b>BK310</b>
Workpiece material		Gray cast iron (FC250)
Workpiece image		
		
cutting conditions	Cutting speed (m/min)	900
	Feed (mm/rev)	0.1
	D.O.C. (mm)	0.3
	Coolant	WET
Result		 <p><b>BK310</b> delivers excellent sharpness and burr suppression during high-speed turning of gray cast iron, achieving a tool life 1.3 times longer than conventional CBN.</p>

Component		Agriculture Parts
Insert		TNGA160408PHT01020
Grade		<b>BK310</b>
Workpiece material		Gray cast iron (FC250)
Workpiece image		
		
cutting conditions	Cutting speed (m/min)	700
	Feed (mm/rev)	0.1
	D.O.C. (mm)	0.2
	Coolant	WET
Result		 <p>Conventional CBN would experience chattering at the corners and reach the end of their tool life, but <b>BK310</b> maintains its sharpness and achieved 1.5 times longer tool life.</p>

Component		Machinery parts
Insert		CNGA120408PQT01020
Grade		<b>BK350</b>
Workpiece material		Ductile cast iron (FCD450)
Workpiece image		
		
Cutting condition	Cutting speed (m/min)	400
	Feed (mm/rev)	0.05
	D.O.C. (mm)	0.5
	Coolant	WET
Result		 <p>Conventional CBN develop burrs in the hole and reach the end of its tool life, but <b>BK350</b> maintains its sharpness and achieves double tool life.</p>

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