



Electroformed Bond Blades with HUB

High performance hub-type blade that challenges cutting



The NBC-ZH series provides high productivity and excellent process results thanks to its superb cutting ability and long life.

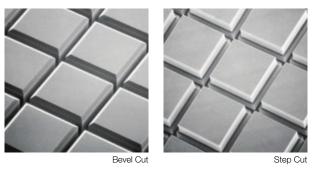
The NBC-ZH series is produced using Disco's original technology. A combination of an ultra-thin diamond blade and an aluminum hub provides enhanced operation efficiency and stable cutting results. In combination with Disco's vast application knowledge, these blades provide excellent cutting results when dicing silicon wafers and compound semiconductor wafers such as GaAs.



REGISTERED ORGANIZATION No. F892 - ISO 14001



- Advanced dicing process bevel and step cutting
- Wide range of grit sizes and bond types to support various application requirements
- Easy to handling ultra-thin blades
- Shorter blade change time increased productivity
- Environment-friendly PP (polypropylene) packaging



Applications

Silicon, GaAS, GaP, LiTaO3, etc.

Specifications

Standard Type (Kerf width less than 0.060 mm)

		Bond ^{*1}		Hub Type			Diameter		
	0	Standard Bond		SE	Sharp hub		27H	O.D. ø55.56	
	J	Soft Bond			edge type			I.D. ø19.05	
	F	For Backside					35H	O.D. ø76.20	
		Chipping Reduction						I.D. ø31.75	
								(mm)	
NBC - 2	Ζ	H 2 05 0	-	SE	27H E	D	D		

Concentration ^{*1} Grit Size ^{*1}		t Size ^{*1}	Grit Size Code		Exposure		Kerf Width		
1	Low	22	#5000	•	Α	0.380~0.510	Α	0.015~0.020	
	Concentration	26	#4800	A	в	0.510~0.640	В	0.020~0.025	
2	Standard	02	#4500	В	С	0.640~0.760	С	0.025~0.030	
Concentration	27	#4000	С	D	0.760~0.890	D	0.030~0.035		
		03	#3500	C	Е	0.890~1.020	Е	0.035~0.040	
		04	#3000	D	F	1.020~1.150	F	0.040~0.050	
		05	#2000	Е		(mm)	G	0.050~0.060	
		29	#1800	-				(mm)	
		06	#1700	F					
		07	#1500	G					

Standard blade types²

	Exposure	А	В	С	D	Е	F
Kerf Width	mm	0.380~0.510	0.510~0.640	0.640~0.760	0.760~0.890	0.890~1.020	1.020~1.150
А	0.015 ~0.020	AA					
В	0.020 ~0.025	AB	BB	СВ			
С	0.025 ~0.030		BC	CC	DC		
D	0.030 ~0.035		BD	CD	DD	ED	
E	0.035 ~0.040			CE	DE	EE	FE
F	0.040 ~0.050			CF	DF	EF	FF
G	0.050 ~0.060				DG	EG	FG

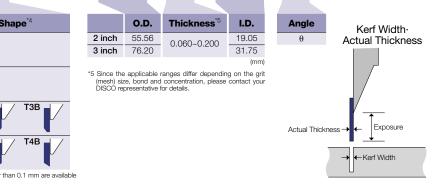
*2 Please contact a Disco representative for details

Actual blade thickness with greater than 0.060 mm NBC-ZH 2 05 0 - D - S1 - T1 - SE

	Exposure	Slit ^{*3}		Blade Shape
А	0.380~0.510	S1 No.of slits 4		T1
в	0.510~0.640	S2 No.of slits 8	_	θ
С	0.640~0.760	S3 No.of slits 16	6	
D	0.760~0.890	SS Optional		T2
Е	0.890~1.020	*3 All slit widths are 0.5r		θ
F	1.020~1.150	(except for the SS type All slit depths are 80~10		
G	1.150~1.280	of exposure(except for SS type)	the	T3 T3A
н	1.280~1.410	Blade thickness grea	ter	θ
Т	1.410~1.540	than 0.06 mm are availa		
J	1.540~1.670			
κ	1.670~1.800			θ
	(mm)		•	4 Blade thickness greater than 0.1

2 inch 3 inch Т3В

55.56 x 0.1 x 19.05 x 45°



When ordering

Please contact a Disco representative with your product needs such as type, thickness, outer and inner diameter, and quantity

When you place the first order with us, please explain application information such as materials to cut or grind, sizes, shape, machine, type, and other specification.

We are ready to help you to determine which is our most appropriate product type for your application.

Due to improvements in our products, it is possible that product specifications may be changed without advanced notice. Please confirm the product specifications with a Disco representative.

To use these Disco wheels safely...

To use these Disco wheels sarely... Please read carefully and follow the instructions below to prevent any accidents or injuries. USE a safety cover (nozzle case, cover), equipped as a standard accessory, to avoid injury.
DO NOT EXCEED the maximum rpm if it is specified.

FOLLOW the instruction manual of the machine to mount wheel properly.
DO NOT DROP OR HIT wheels, this may cause wheel breakage or injury.

Always CHECK the wheel for chipping or any other wheel damage before starting to use the wheel. DO NOT USE the wheel if there is any damage.
READ the operation manual of the cutting/ grinding equipment before use.

 DO NOT USE a wheel with a modified or customized equipment.
DO NOT USE a wheel that has a different size from the one recommended for your machine. • DO NOT USE a wheel for any other purpose than Grinding, Cutting, or Polishing. Always USE water or coolant to prevent wheel breakage.

DISCO

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Electroformed Bond Blades with HUB **NBC-ZH**SERIES



Standard specification range *1 by grit size

by grit oizo								
Gr	it Size	Conce	Bond					
	Size	1	2	0	J	F		
22	#5000		\checkmark		\checkmark			
26	#4800		\checkmark		\checkmark			
02	#4500		\checkmark		\checkmark	\checkmark		
27	#4000	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
03	#3500	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
04	#3000	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
05	#2000	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
29	#1800	\checkmark		\checkmark	\checkmark	\checkmark		
06	#1700	\checkmark		\checkmark	\checkmark	\checkmark		
07	#1500	\checkmark		\checkmark	\checkmark			
07	#1500	V	V	V	V			