



Electroformed Bond Blades with HUB **ZHFXSERIES**

Realizes continuous processing of oxide wafers



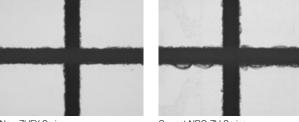


The ZHFX Series realizes high level continuous processing of oxide wafers by using a new bond.

The ZHFX Series employs a bond that has ideal wear properties for processing newly developed oxide wafers. It is capable of continuously processing oxide wafers, which has been difficult thus far, with a high level with stability. In addition, greater processing stability can be expected in the DBG processing of Lithium Tantalite wafers.

- Realizes high level and stable processing of oxide wafers.
- Significantly lowers dress frequency during processing and shows high continuous processing performance.





New ZHFX Series

Current NBC-ZH Series



Applications

Oxide wafers (LiTaO3, etc.), etc.



IOA-0954

REGISTERED ORGANIZATION No. F892-ISO 14001

Specifications

Grit type Bond type SD C1 1700 - C1 - 50 D D ZHFX - SD

Grit Size	Concentration		Exposure		Kerf Width		
1700	50	Α	0.380~0.510	С	0.025~0.030		
2000	70	в	0.510~0.640	D	0.030~0.035		
	90	С	0.640~0.760	Е	0.035~0.040		
	110	D	0.760~0.890	F	0.040~0.050		
		Е	0.890~1.020		(mm)		
		F	1.020~1.150				
			(mm)				

Standard blade types

	Exposure	А	в	с	D	E	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		
с	0.025 ~0.030	AC	BC	CC					
D	0.030 ~0.035	AD	BD	CD	DD				
E	0.035 ~0.040	AE	BE	CE	DE	EE			
F	0.040 ~0.050	AF	BF	CF	DF	EF	FF		

Standard specification range by grit size

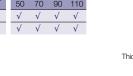


Kerf Width-Actual Thickness

Electroformed Bond Blades with HUB

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Concentration



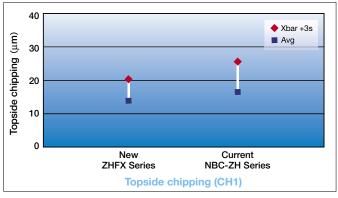
Actual Thicknes Exposure -Kerf Width

* Please contact a Disco representative for details.

Experimental Data

The ZHFX Series is an optimal blade for applications such as half-cut dicing for the DBG process or the continuous processing of oxide wafers.

Topside chipping size comparison



Cut direction

When ordering

inner diameter, and quantity.

DISCO CORPORATION

CH2 CH1 Wafer: 4" LiTaO3 x 350µmt Depth : 350µm (full cut) Blade · 7HEX-SD2000-C1-50 DE NBC-ZH105L 27HEDF

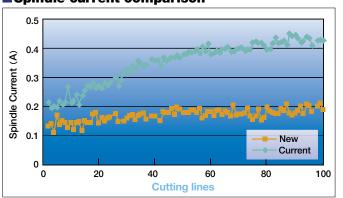
Please contact a Disco representative with your product needs such as type, thickness, outer and

When you place the first order with us, please explain application information such as materials to

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

Spindle current comparison



The above graph shows the measurement of current during the processing of a LiTaO₃ wafer. With the ZHFX Series, compared to the existing series, as the number of lines increased, there is no rise in current, so stable processing can be verified.

Wafer : 4" LiTaO3 x 350µmt Depth : 150µm (half cut) Blade · 7HEX-SD1700-C1-50 BC NBC-ZH106J 27HFBC

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.



cut or grind, sizes, shape, machine, type, and other specification.

advanced notice. Please confirm the product specifications with a Disco representative.

ASIA : DISCO HI-TEC (SINGAPORE) PTE., LTD. Blk 2 Kaki Bukit Ave.1 #03-06/08 Kaki Bukit Industrial Estate Singapore 417938 Phone: 65-6747-3737 Fax: 65-6745-0266 DISCO HI-TEC (MALAYSIA) SDN. BHD. Phone: 60-3-8024-6588 Fax: 60-3-8024-1311 Phone: 60-3-8024-6588 Fax: 60-3-8024-13 Penang Regional Office Phone: 60-4-644-5502 Fax: 60-4-645-2285 DISCO HI-TEC (THAILAND) CO., LTD. Phone: 66-2-618-8441 Fax: 66-2-618-8440 UISCO HI-TEC (THAILAND) CO., LTD. Phone: 66-2-618-8441 'Fax: 66-2-618-8440 DISCO TECHNOLOGY (SHANGHAI) CO., LTD. Area E, 3rd Floor, Building A1 No.381 FuTeXN1 Road, WalGaoClae Offee Tade Zone, Shanghai 200131 PR. CHINA Phone: 86-21-58662516 Fax: 86-21-58662517 Tianjin Service & Technical Support Center Phone: 86-022-24381973 Fax: 86-022-24381637 Dongguan Service & Technical Support Center Phone: 86-769-86334981 Fax: 86-769-86334559 Suzhou Office Suzhou Office Phone: 86-512-67629081 Fax: 86-512-67629082

Chengdu Office Phone: 86-28-86528592 Fax: 86-28-86528591

Phone: 86-28-8652592/ Fax: 86-28-8652591 ASIA AGEMT : New Tronics Co., Ltd. Fait, F. 11th Floor, Valiant Ind. Bidg. 2-12 Au Pui Wan Street, Fotan Shantin, N.T. HONG KONG Phone: 852-26871431 Fax: 852-26874283 Happy Pole, Ltd. 85-1, No.41 Section 2, Roosevelt Road Taipei, Taiwan R.O.C. Phone: 886-2-23960651 Fax: 886-2-23943943 Wurstack Concention

Phone: 886-2-29900601 rat. 600-2-2090001 Aurotech Corporation 2021 Buencamino Street Alabang, Muntinglupa PHILIPPINES Phone: 63-2-809-0155 Fax: 63-2-807-7419

DHK Solution Corporation 13F, Sanhak Jaedan Building, 1337-31, Seocho-dong, Seocho-gu, Seoul, Korea Phone: 82-2-3415-1122 Fax: 82-2-3415-1441

U.S.A. : DISCO HI-TEC AMERICA, INC. 3270 Scott Blvd. Santa Clara, CA 95054-3011 U.S.A. Phone: 1-408-987-3776 Fax: 1-408-987-3785

Eastern Regional Sales & Service Office Phone: 1-603-656-9019 Fax: 1-603-656-9018 Southeastern Regional Sales & Service Office Phone: 1-919-468-6003 Fax: 1-919-468-6004 Centra Regional Sales & Service Office Phone: 1-972-267-9600 Fax: 1-972-267-5612 Southwestern Regional Sales & Service Office Phone: 1-602-431-1412 Fax: 1-602-431-1437 Northwest Regional Sales & Service Office Phone: 1-503-644-0323 Fax: 1-503-643-8108 ZICADE:

Phone: 1-503-644-0223 Fax: 1-504-643-5108 EUROPE : DISCO HI-TEC EUROPE GmbH Liebligstrase 8 D-85551 Kichneim b.Muenchen Germany Phone: 49-89-30903-0 Fax: 49-89-30903-199 DISCO HI-TEC PRANCE SARL Provence Head Office Phone: 33-4-42-91-00-20 Fax: 33-4-42-91-00-29 DISCO HI-TEC UK. LTD. Phone: 44-1342-313165 Fax: 44-1342-313177 Percon LI-TEC MORPGOD SARL DISCO HI-TEC MOROCCO SARL Phone: 212-6-136-94-04 Fax: 212-22-97-38-88