



Introduction of SnB

January 2020

New Business Development Project



MDI Confidential



Scribe

and

Break

D





You might be struggling with...

Wet Low Kerf Loss Chipping Productivity **Process** 20µm ↔ \leftrightarrow 80µm 100.00ur 3-10mm/s





SnB is THE SOLUTION



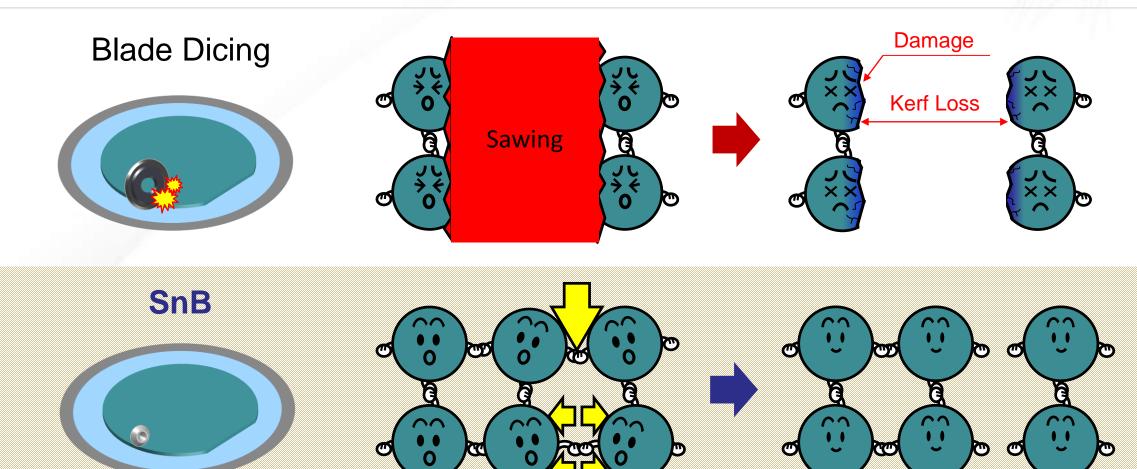
Dry Process No No High Chipping Productivity Kerf Loss 5.0µm 0.3µm 100.00µ 100-300mm/s



4



Why SnB can do that? SnB uses natural cleavage



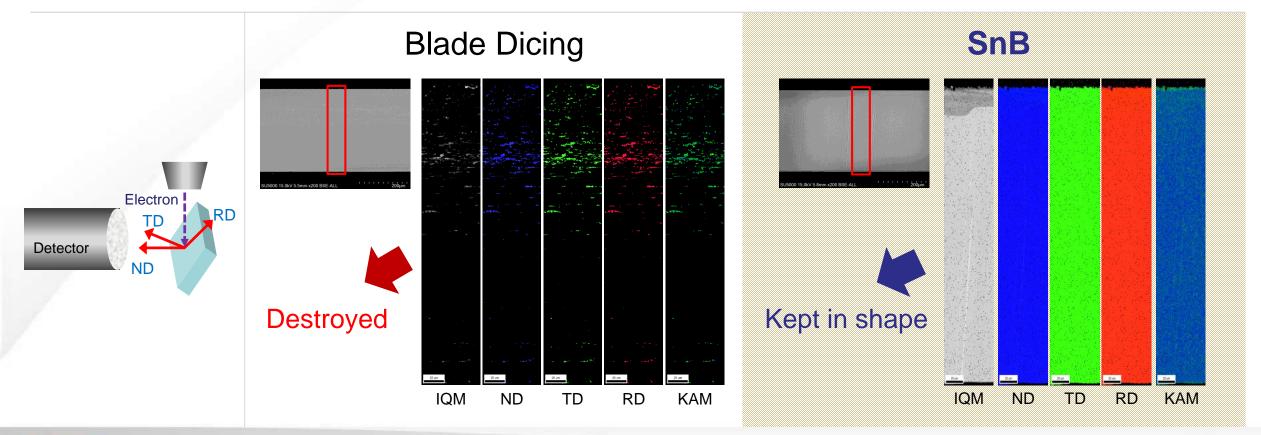




Wait...is that true? Take a look

The result of EBSD (Electron Back Scatter Diffraction) shows whether crystal is destroyed or not.



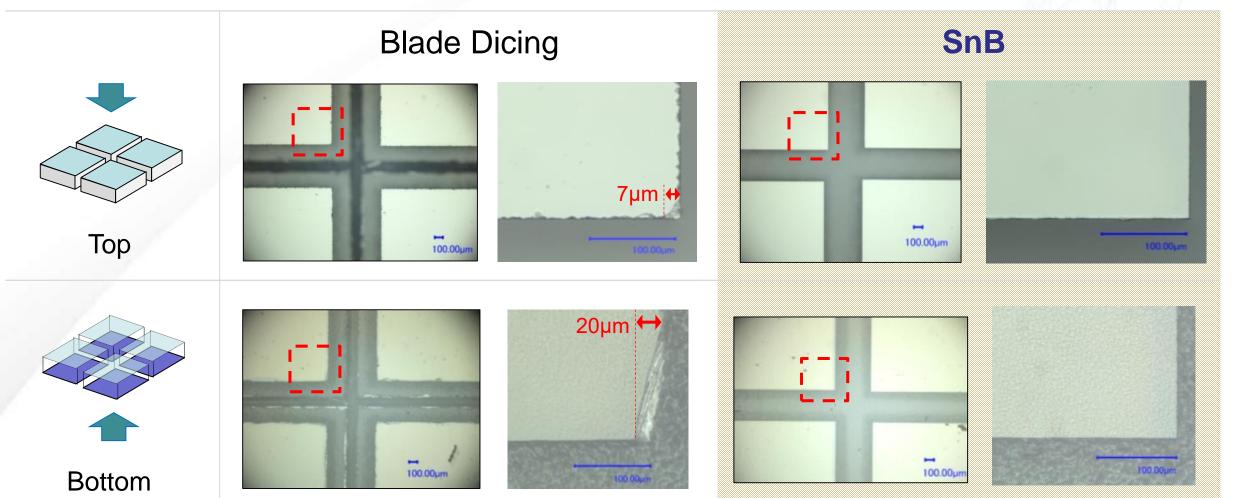




6



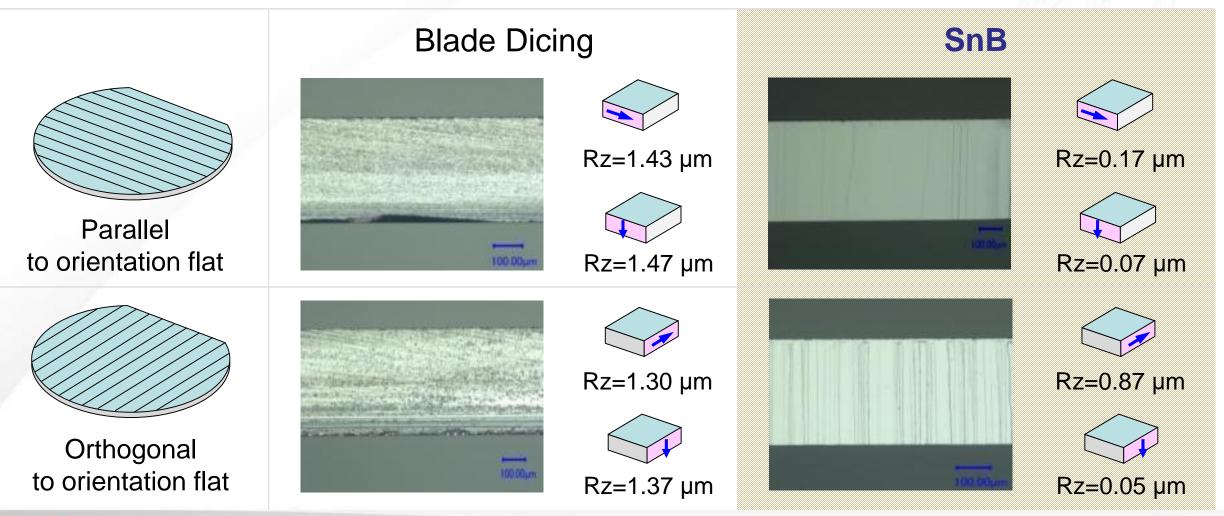
Better Quality? No doubt







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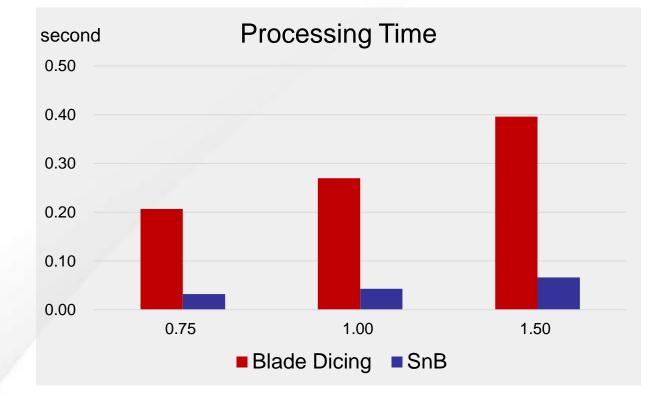




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To process a chip on 6 inch wafer it takes...

Die Size	Blade Dicing	SnB	
Scribe Speed	10 mm/s	100 mm/s	
0.75 mm	0.207 s	0.032 s	- 84.4 %
1.00 mm	0.270 s	0.043 s	- 84.0 %
1.50 mm	0.396 s	0.066 s	- 83.2 %

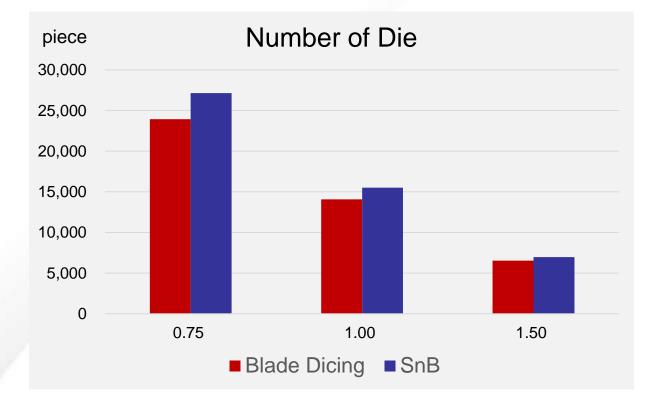
SnB is 10 times faster

* Based on original calculations of MDI





More dies? Sure



Following number of die obtained from 6 inch wafer

Die Size	Blade Dicing	SnB	
Street Width	80 µm	30 µm	
0.75 mm	23,936 pcs	27,144 pcs	+ 13.4%
1.00 mm	14,076 pcs	15,504 pcs	+ 10.1%
1.50 mm	6,536 pcs	6,964 pcs	+ 6.5%

Get 13% more dies!

* Based on original calculations of MDI





What would you choose?

or

Disappointing

Damaging Slow Bad Productivity Eco Unfriendly

Smart and Best

High Quality Fast High Productivity Eco Friendly



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