

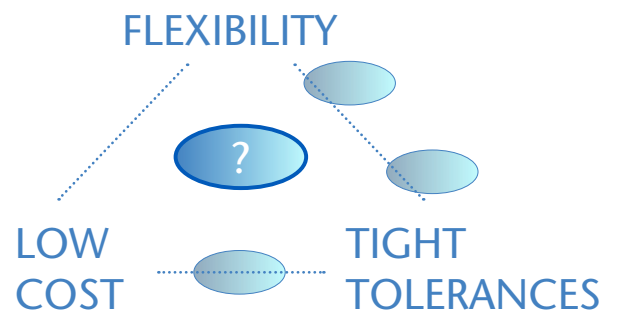
# The glass structuring revolution



Big breakthroughs in technology can hinge on the smallest of details. Consumer electronics, medical devices, industrial equipment, and other technologies are advancing at incredible pace with new features and functionality every year. Some of the biggest leaps in technology could come from new materials, which enable smaller, faster, and high performance components. Manufacturers are demanding **precisely structured glass wafers to drive new applications in sensor, battery, and diagnostic technology.**

## Challenge

### No more trade-offs

Standard techniques for structuring glass wafers have reached their limits due to material tolerances and manufacturing capabilities. Besides, structuring glass is always a trade-off: customers can either focus on low **cost**, **flexibility** or tight **tolerances**. There has not been a gold standard to combine these three customers' trade-offs in a beneficial equilibrium. This fact made it necessary to find new ways for structuring glass that shrink cost, ensure distinctive flexibility and offer tight tolerances.



-  Glass structuring technologies
-  Perfect feature equilibrium

SCHOTT research and development teams came together to explore how to improve glass structuring. Three experts from different parts of the company drove their vision of glass-made design freedom.

“Conventional glass processing reached its limits. We needed to find a new way to meet our customers’ visions.”

– Matthias Jotz, Product Manager Sensor & Semicon,  
SCHOTT Advanced Optics



“Matthias reached out to me with this challenging task. Our joined team of experts from both R&D and technical services supported his vision and found a truly unique way in a very short time!”

– Dr. Markus Heiß-Chouquet, Material Scientist,  
SCHOTT Technical Services

“The great thing about our technology is, that it gives you design freedom and freedom of choice regarding glass types.”

– Fabian Wagner, Post-Processing Specialist,  
SCHOTT Research & Development



# Changing the game

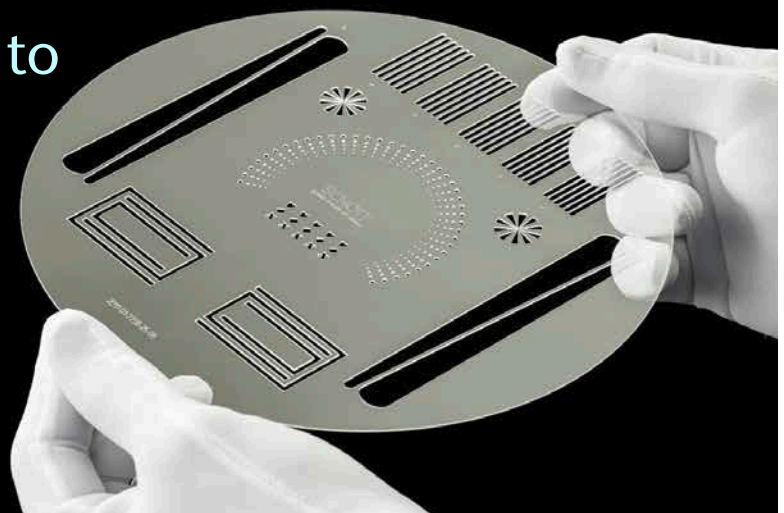
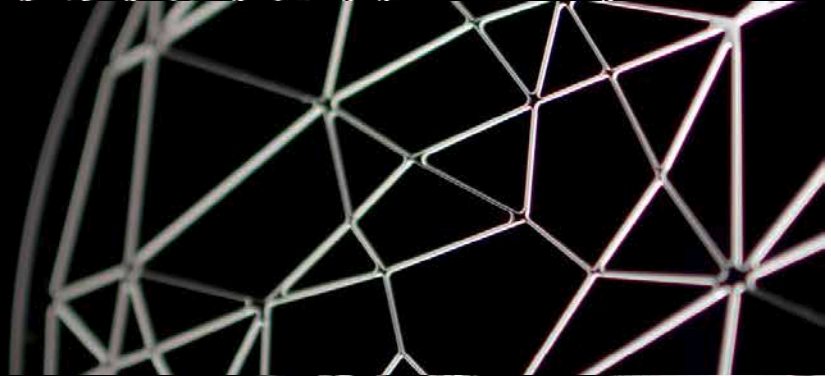
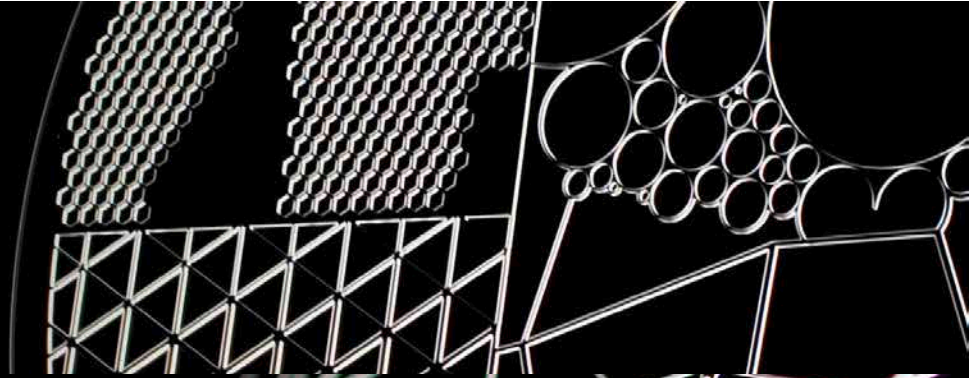
New breakthroughs in wafer structuring will allow for smaller electronic wafers, sensors, and batteries to give designers and manufacturers more freedom in creating products and integrating components.

Flexibility

Accuracy &  
Precision

Customized  
Solutions

A new and unique way to  
structure glass wafers

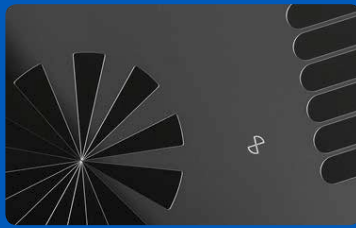






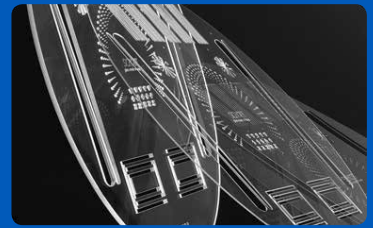
### Lowest Tolerances

FLEXINITY™ makes any shape possible – its process accommodates extremely fine tolerances and structures.



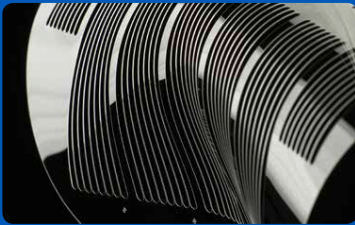
### Design Freedom

The high-precision structures of the new FLEXINITY™ portfolio of structured wafers enable new application possibilities and advanced miniaturization.



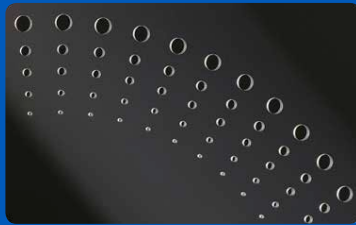
### Free Choice of Glass

Every application demands something different of its material. FLEXINITY™ offers users a wide range of different borosilicate glass types.



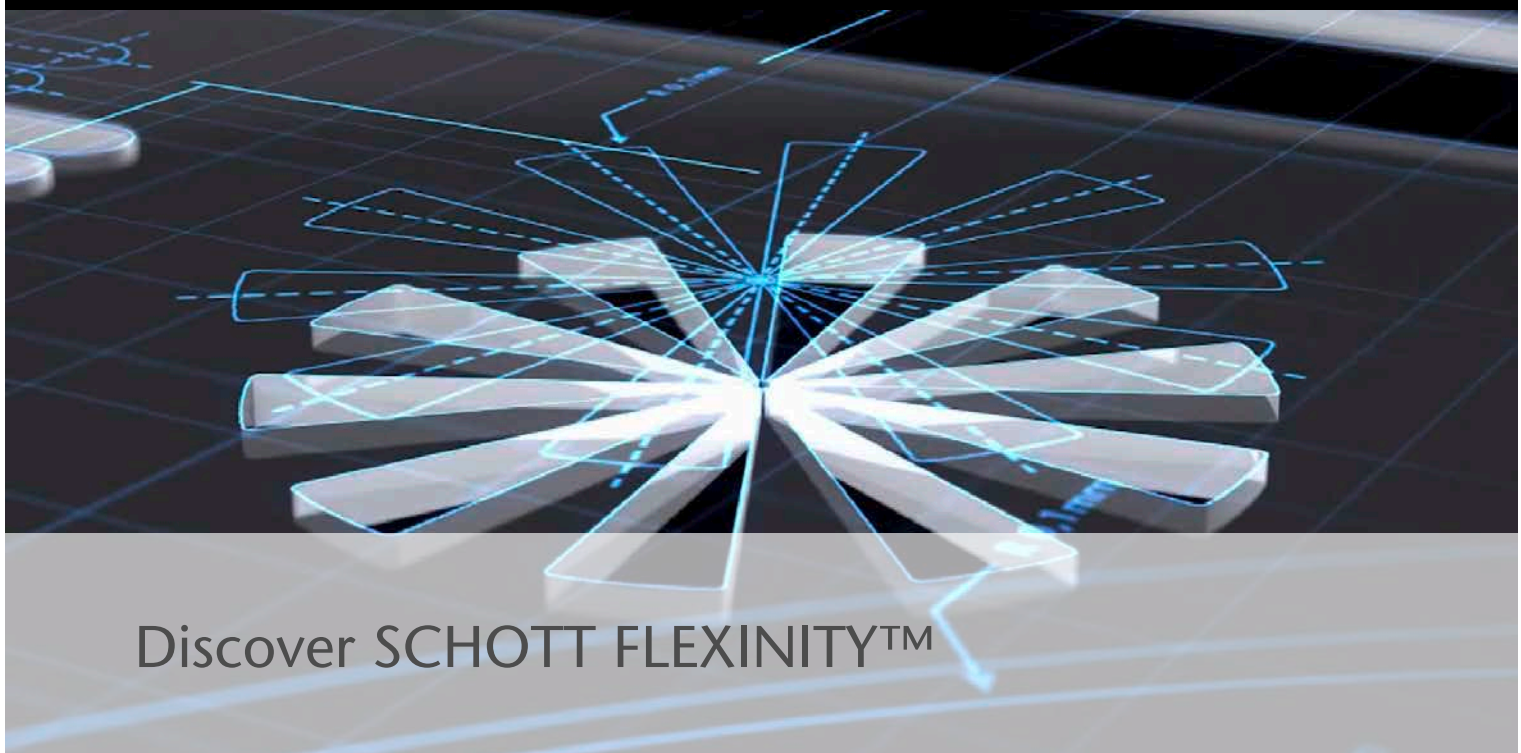
### Broad Range of Thicknesses

FLEXINITY™ can even structure ultra-thin SCHOTT glass with thicknesses down to 0.1 mm.



### Individual Solutions

FLEXINITY™ offers customized solutions and designs. Any shape can be implemented, giving customers complete freedom.



Discover SCHOTT FLEXINITY™



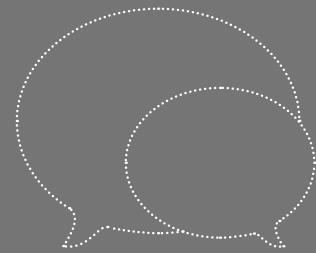
A key driver for various industries

Let's define the future of structured glass together.

What's your next milestone?

Contact

Jonathan Leon Ruckes  
Sales Manager  
SCHOTT Advanced Optics



Links

 [SCHOTT FLEXINITY™](#)