

The foldable glass revolution!

**Xensation® Flex**



**SCHOTT**  
glass made of ideas

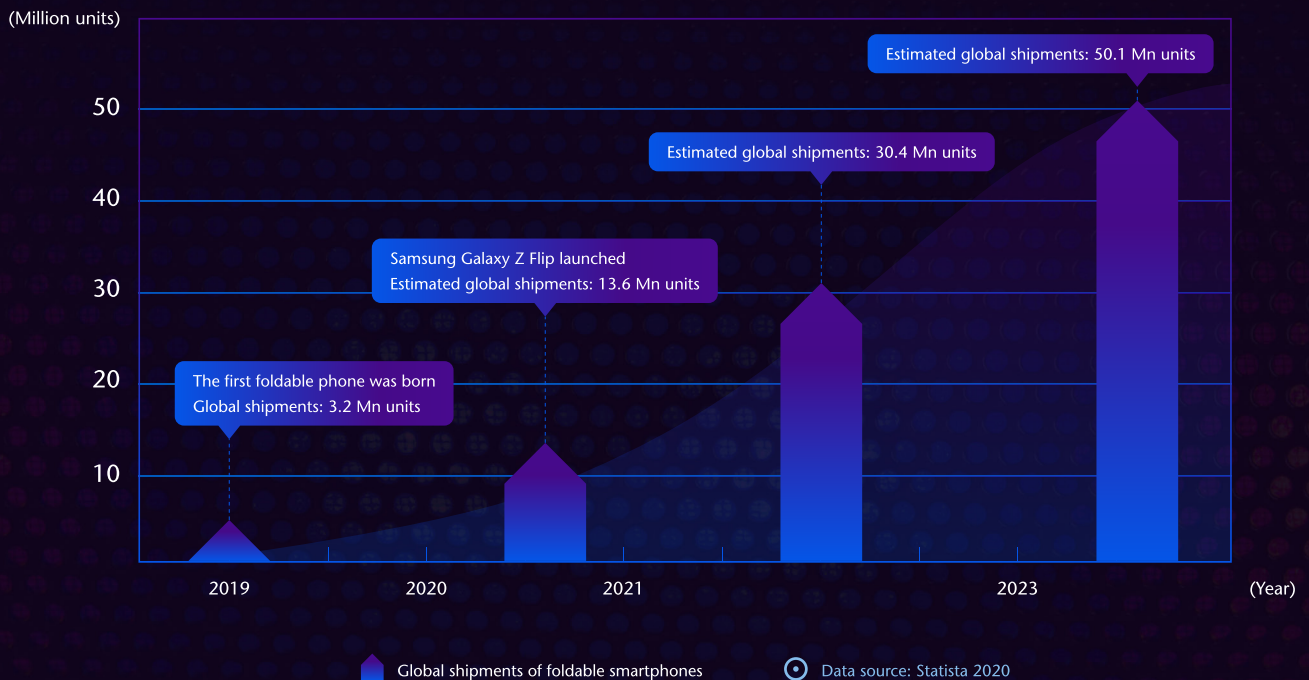
## A Foldable Glass Revolution

Back in 1884, Otto Schott invented specialty glass and founded SCHOTT as a technology company. What if someone told him that over 130 years later, his company would completely change the perception of glass as a rigid and heavy material?

However unthinkable, today – the future is finally here. With ultra-thin, ultra-flexible Xensation® Flex.

## Challenge

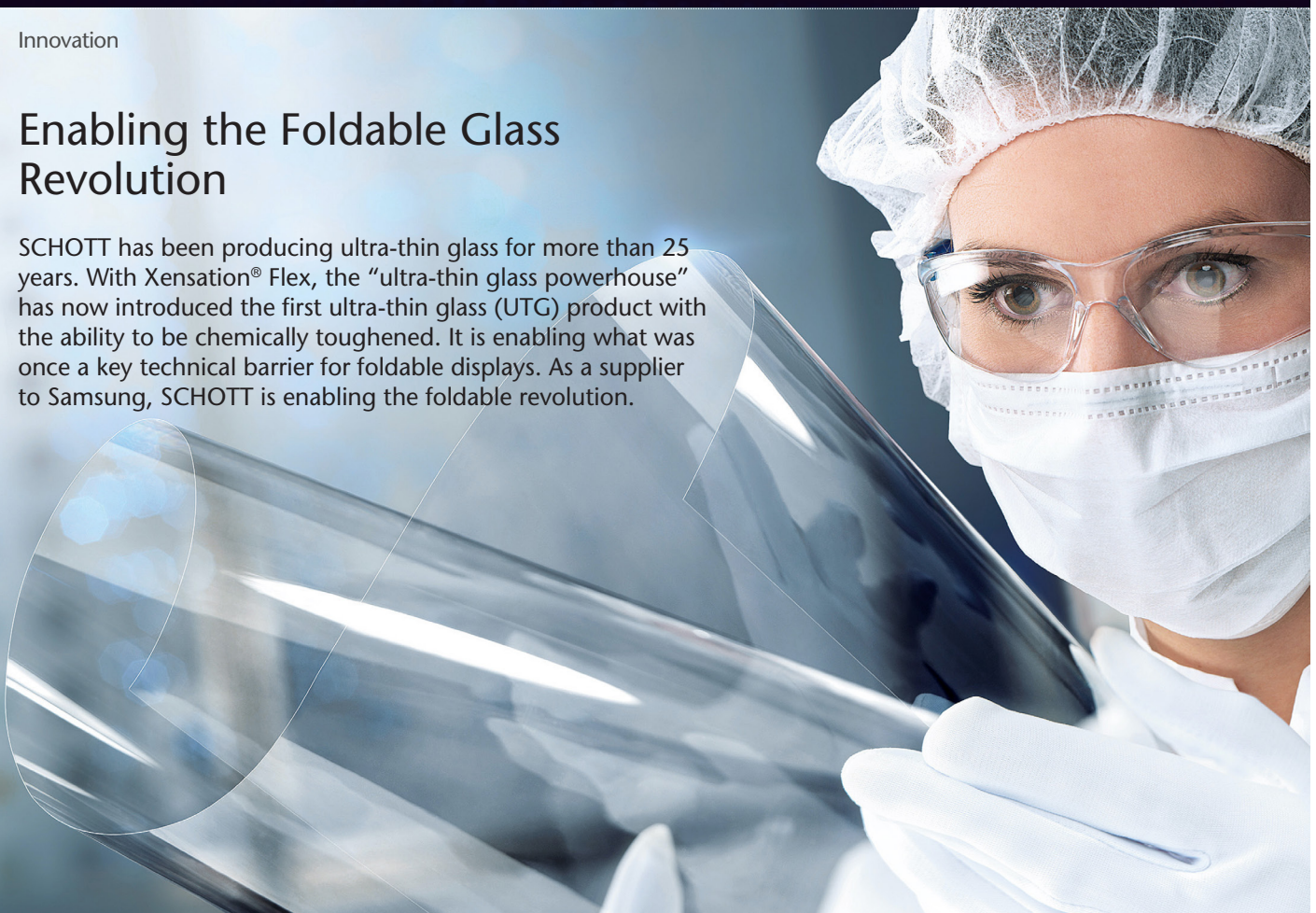
Smartphone manufacturers never stop improving and changing mobile displays in order to compete in the ever-evolving smartphone market. Foldable or flexible glass displays, with revolutionary form factors and superior transparency, are said to be “the next big thing” in Consumer Electronics. For a premium and high-end appeal, a flexible cover glass is the material of choice.



## Innovation

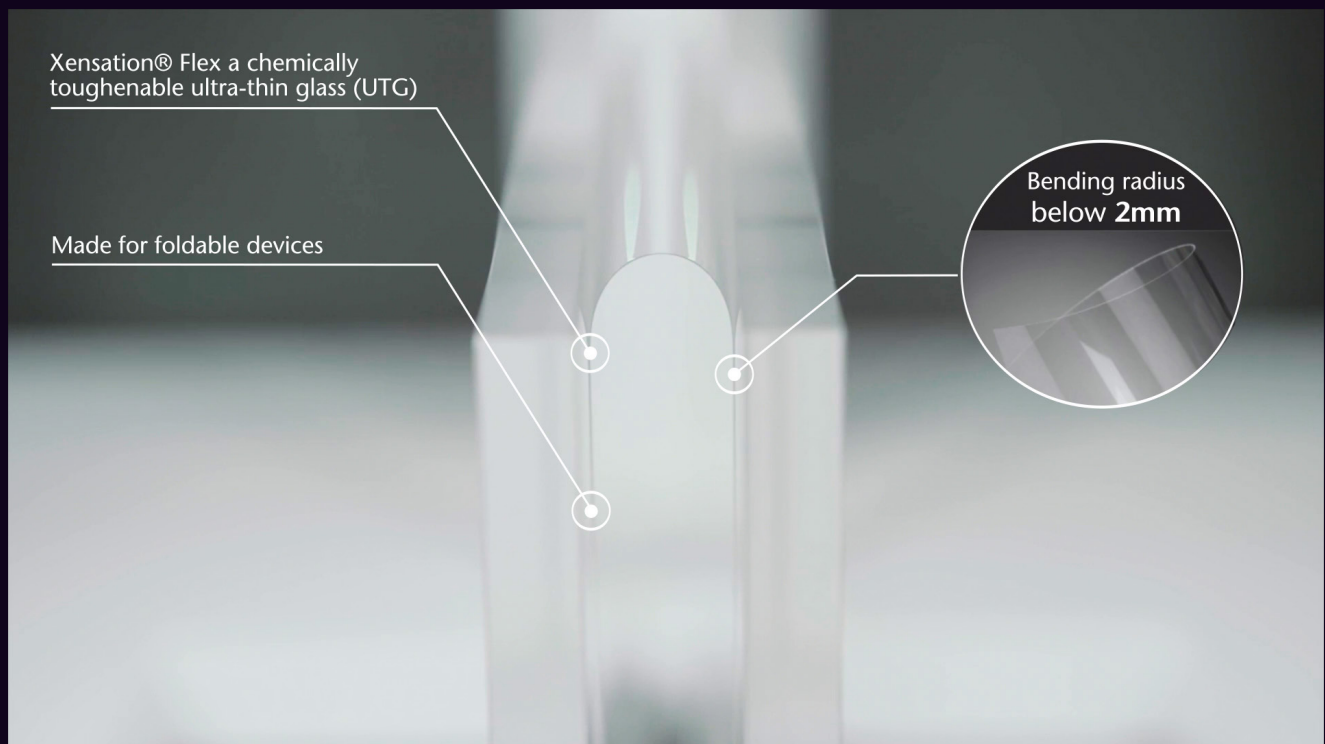
### Enabling the Foldable Glass Revolution

SCHOTT has been producing ultra-thin glass for more than 25 years. With Xensation® Flex, the “ultra-thin glass powerhouse” has now introduced the first ultra-thin glass (UTG) product with the ability to be chemically toughened. It is enabling what was once a key technical barrier for foldable displays. As a supplier to Samsung, SCHOTT is enabling the foldable revolution.

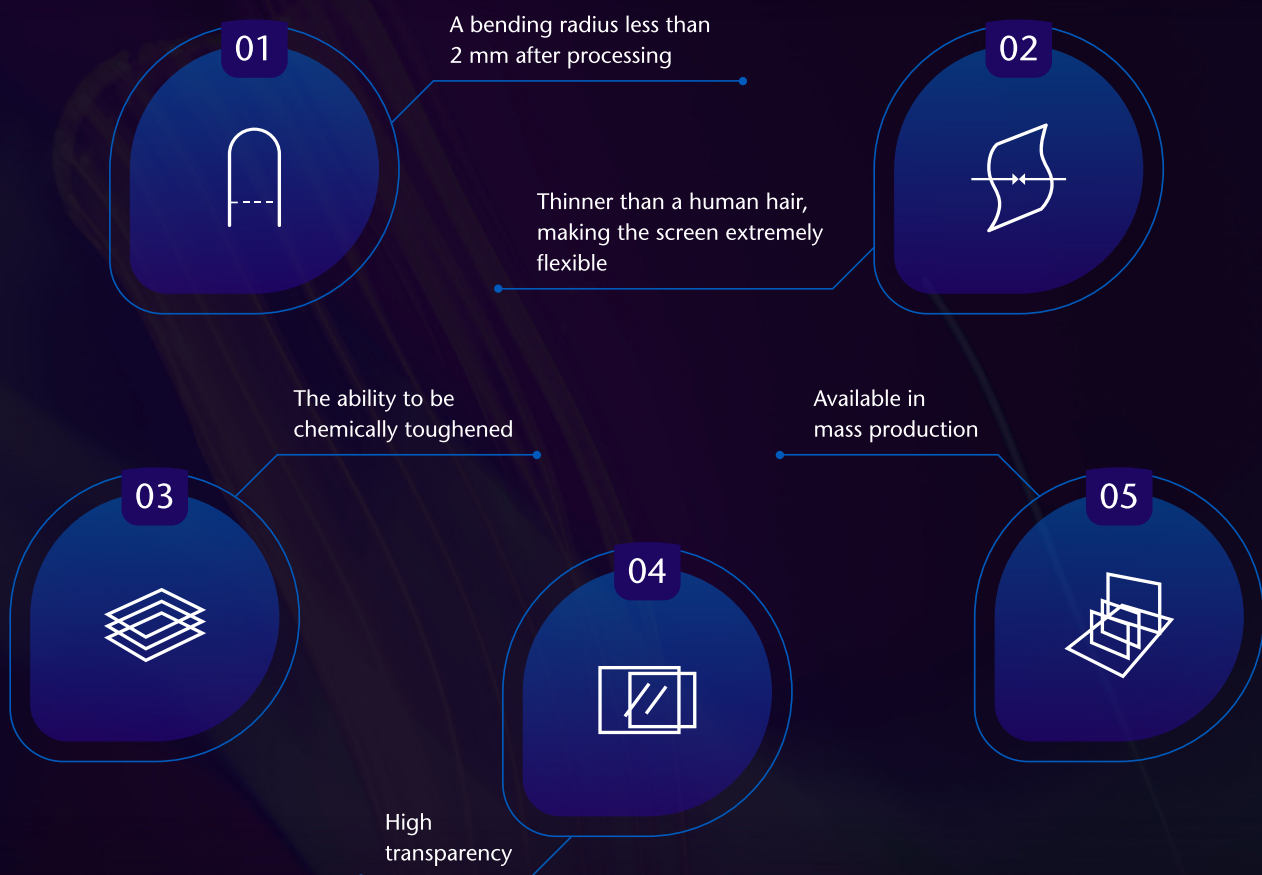




What was once believed to be impossible is now possible: an extremely small bending radius less than 2 millimeters (mm) after processing.



## Performance advantages of Xensation® Flex:



SCHOTT Xensation® Flex glass offers high transparency for premium models and allows diverse design possibilities for smart devices.

In-Fold



Out-Fold



Z-Fold



G-Fold



## The SCHOTT Xensation® brand: High-performance cover glass

### HIGH PERFORMANCE COVER GLASS

Seriously upgraded  
Xensation® Up.



The foldable glass revolution!  
Xensation® Flex

With Xensation® 3D, SCHOTT was the first cover glass maker worldwide to develop a protective smartphone cover based on aluminosilicate glass with the addition of lithium. Now, the Xensation® umbrella brand offers a unique combination of ultra-tough and ultra-flexible glass types, providing specialty glass solutions to all available display technologies with mass production capacity.

## Xensation® Flex

A perfect enabler for foldable displays

- ▶ Small bending radius below 2 mm and flexible to bend around one's finger after processing
- ▶ Can be chemically toughened
- ▶ High transparency for high-end quality

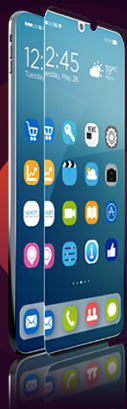


Xensation®

## Xensation® Up.

High performance cover glass with superior set drop performance

- ▶ Exceptionally upgraded strength, flexibility and reliability
- ▶ Excellent set drop performance: probability that smartphones with Xensation® Up. will survive a drop unscathed is 10 times greater than with conventional aluminosilicate (AS) glass



- ▶ Supporting leading smartphone manufacturers such as vivo and OPPO, showcased in high-end models, including NEX 3S 5G smartphone, iQOO 3 5G smartphones, X30 Pro Alexander Wang limited edition 5G phones and OPPO Smartwatch



Find out  
more



"We are supplying ultra-thin glass to Samsung now. Our customers trust in our technology and production capabilities for such high tech products. To keep this trust, we continuously improve and strengthen our ultra-thin glass offering. The official market launch of the Xensation® Flex highlights our efforts in this very demanding technology development."

Dr. Feng He,  
Head of Global Product Management and Application  
of UTG Products at SCHOTT

"SCHOTT has been producing ultra-thin glass for more than 25 years – based on this strong heritage, we are extremely happy to help shape the future of foldable phones with this breathtaking material."

Dr. Mathias Mydlak,  
Business Development Manager, Product Group UTG Cover



Next

With raw glass production in Germany, Xensation® is now supplying the global consumer electronics markets. Carrying the heritage of our early innovation pioneers, SCHOTT Xensation® continues to unlock new dimensions of premium display solutions.

Let's take a big step towards the ultimate vision:  
Unbreakable smartphones with designs that have never been possible before.

## What's your next milestone?

Contact

Claudia Aßelmeyer  
Home Tech  
SCHOTT AG



Links



Find out more about Xensation® Flex

Downloads



Download Story as PDF in Korean