

## Glass Micro Bonding from SCHOTT Primoceler

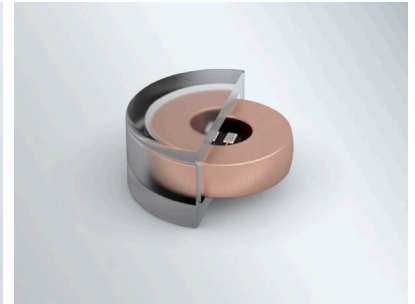
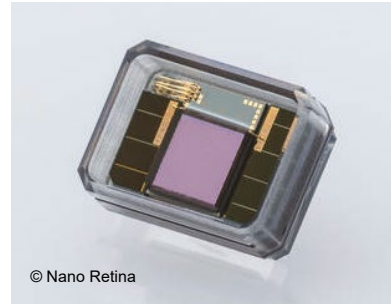
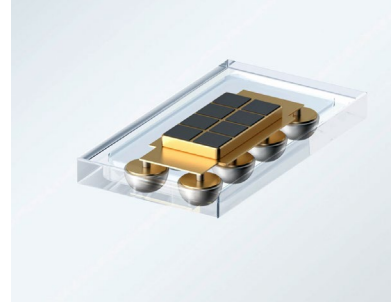
Ultra reliable, miniaturized glass packages

**EPIC Online Technology Meeting on Laser Glass Processing**

**12<sup>th</sup> October 2020, Ville Hevonkorpi**

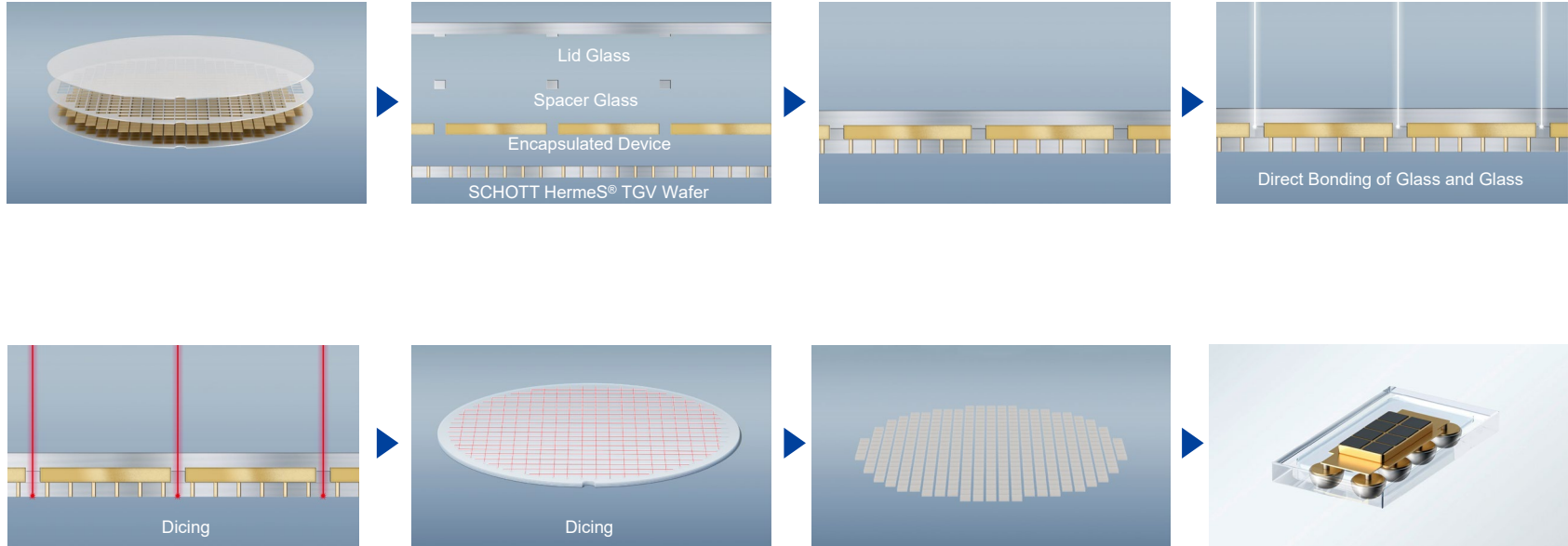
# SCHOTT Primoceler: Who are we?

- Glass Micro Bonding specialist founded in 2010 and headquartered in Tampere, Finland
- Joined the SCHOTT family in August 2018
- Pioneering Technology: Unique additive-free, room temperature hermetic glass bonding
- Specializing in medical implants, microfluidics, micro-electronics and micro-optics



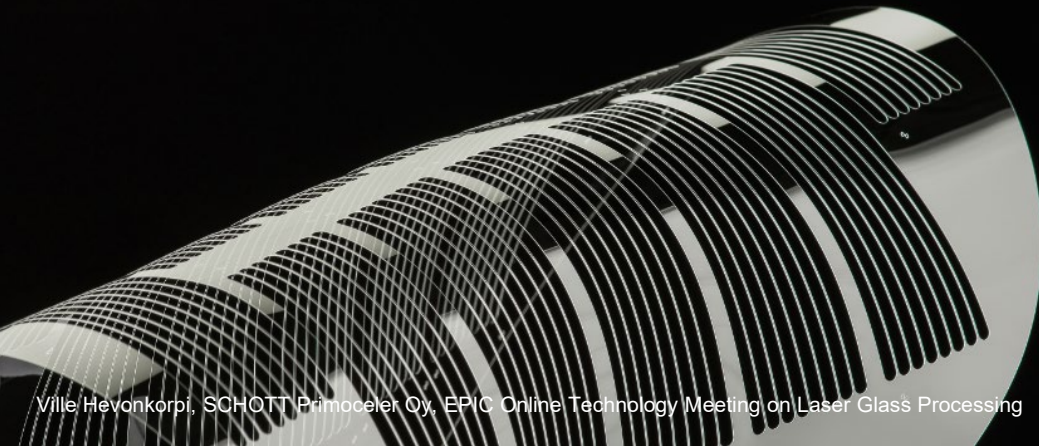
Glass Micro Bonding is a **WAFER-LEVEL** process that enables highly efficient and scalable device manufacturing

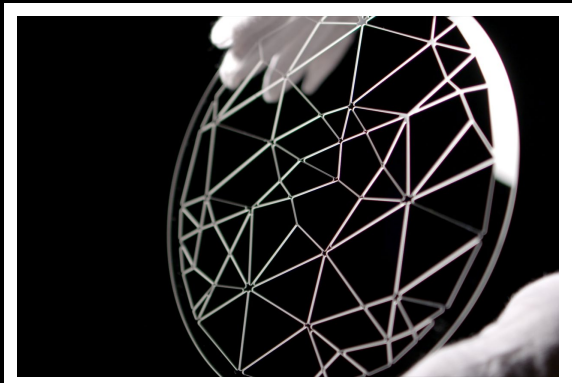
## Process Flow



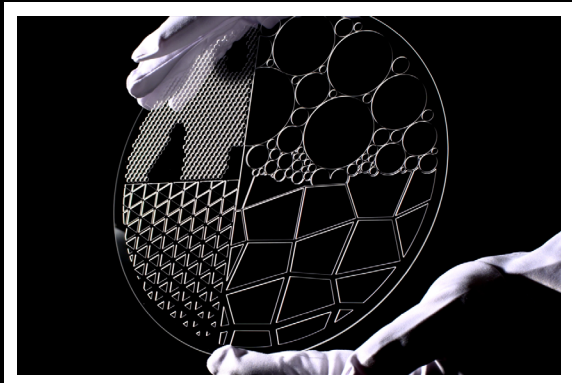
**FLEXINITY® is a new family of structured glass products providing an outstanding portfolio of material properties and geometrical features**

Customization  
structuring thin-glass  
Pressure sensors D263® bio  
**FLEXINITY®** wafers  
Glass SCHOTT  
biotechnology  
MEMS microfluidics  
wafer-level packaging  
AF32® substrates  
MEMpax®

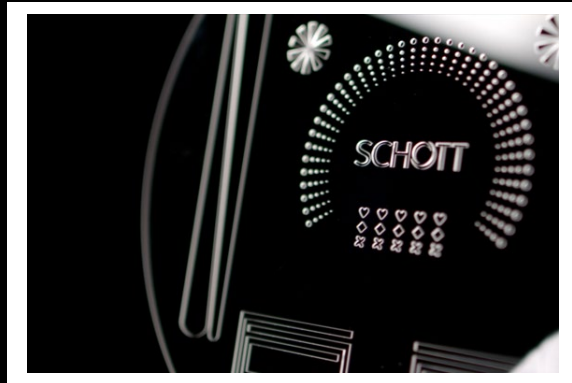




**Accuracy &  
Precision**



**Flexibility**



**Customized  
Solutions**

# New degree of design freedom enabling world-changing products in medical and diagnostic applications/ markets

Line width: 300µm  
Line length: 80mm

## Microfluidics



— Cover Glass  
— Structured UTG  
— µ-channels  
— Substrate

## Application description

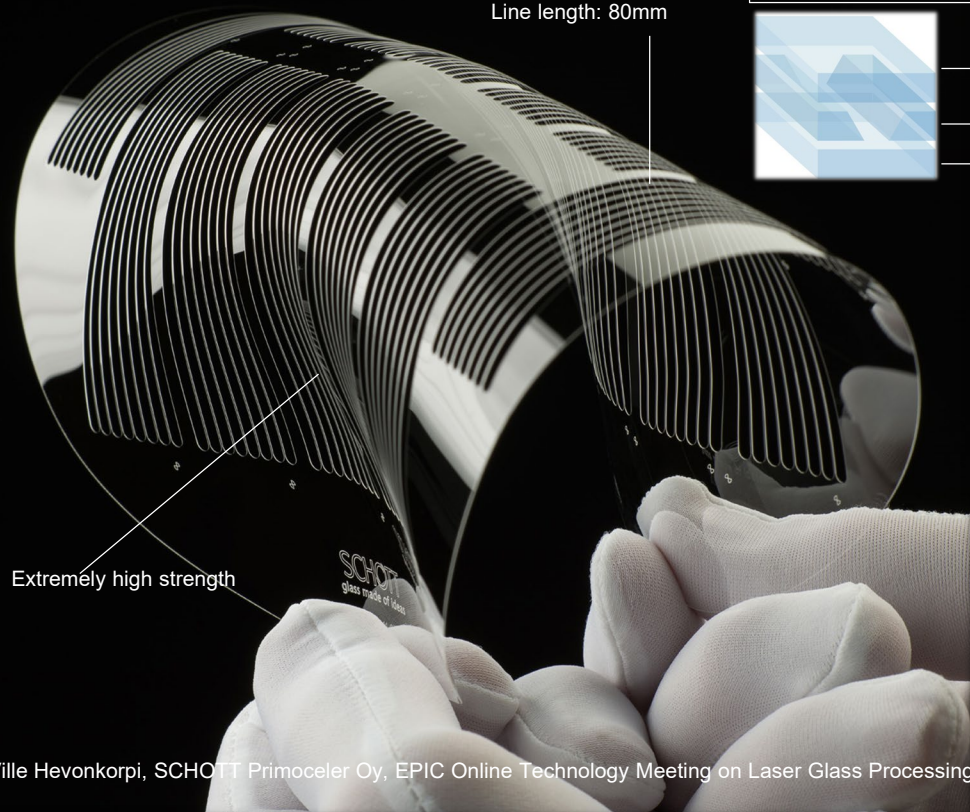
Biotech and life-science industry require **high-quality** and **cost efficient** analysis devices with **microfluidic channels**

## Benefits of SCHOTT glass

- Low self-fluorescence
- Chemically stable
- Ultra thin

## SCHOTT offering:

D 263<sup>®</sup> bio wafer or cut-to-size substrates



Extremely high strength



Laser-sealed glass micropackages are our pride and passion.  
Let us show you how special our technology can be!

And now is the time for questions!