

"Rock-on-a-Chip" Design Upgrading Pressure and Temperature Measurements KAIA CORP

PREO's Samples: Present Limitations

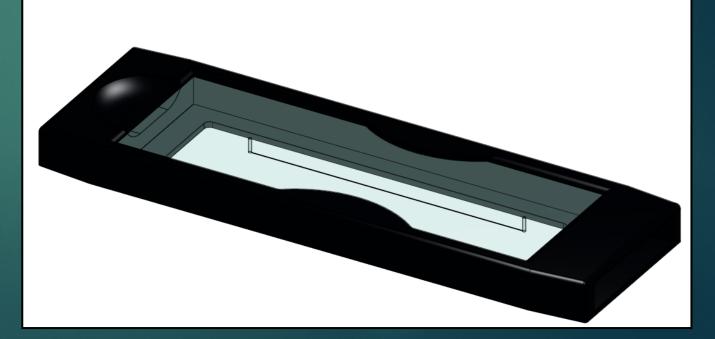


Pressure @145 psi

Temperature @ 25 °C

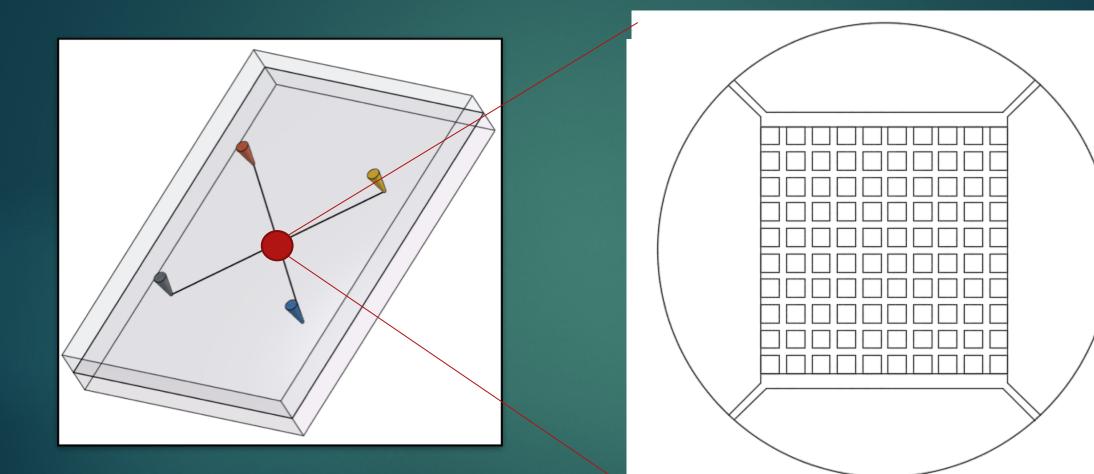
New Sample: Microfluidic Chip Properties: Clear Transparent Sapphire Micro and nano-scale channels Pressure-Capable to 3000 psi Temperature-Capable to 100 °C





New: Microfluidic Chip – Patterns



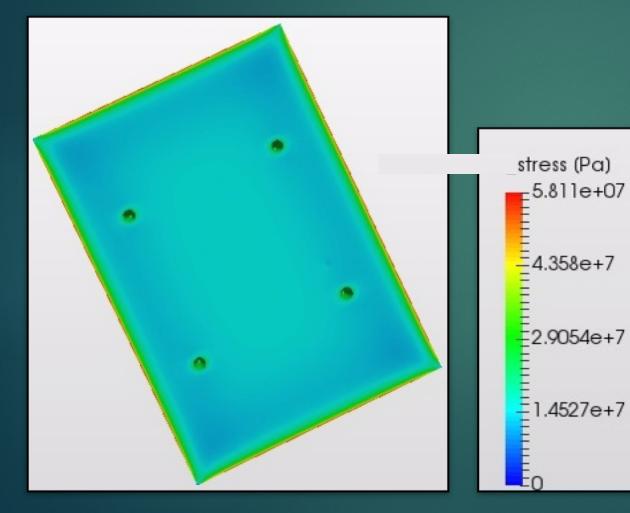


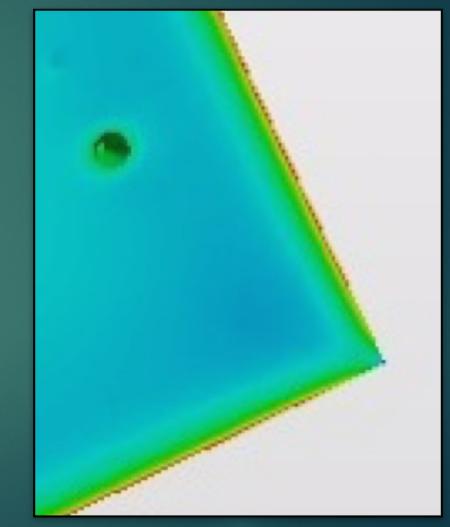
Flow Patterns



Kaia

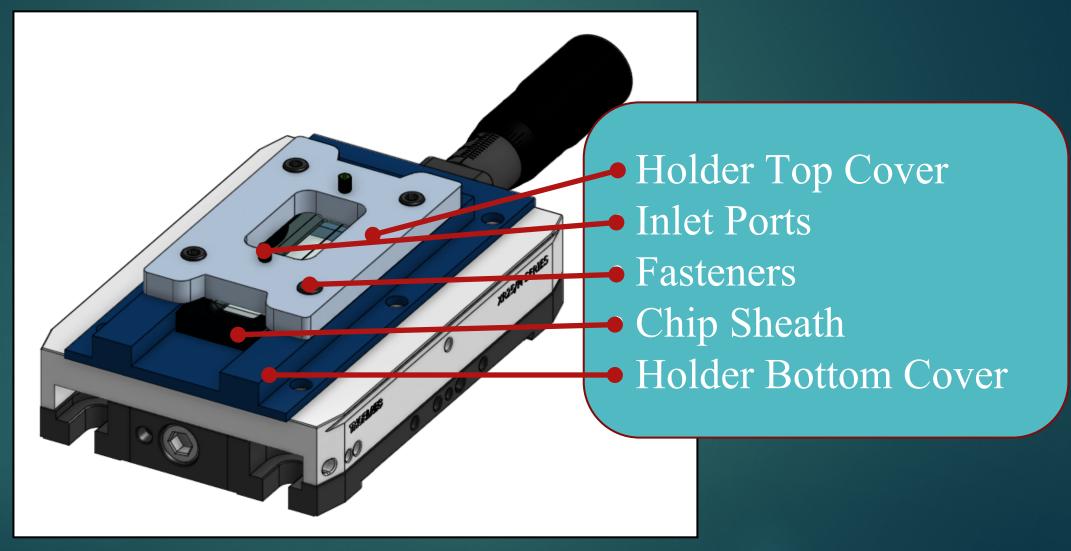
Stress and Deflection Analysis @ 3000 psi





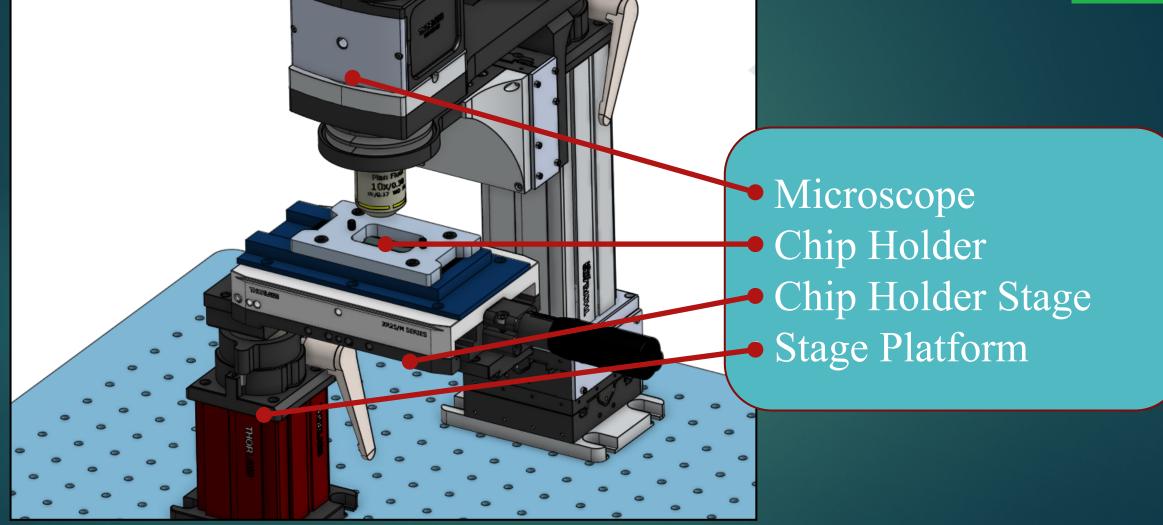
Upgraded Sample Holder





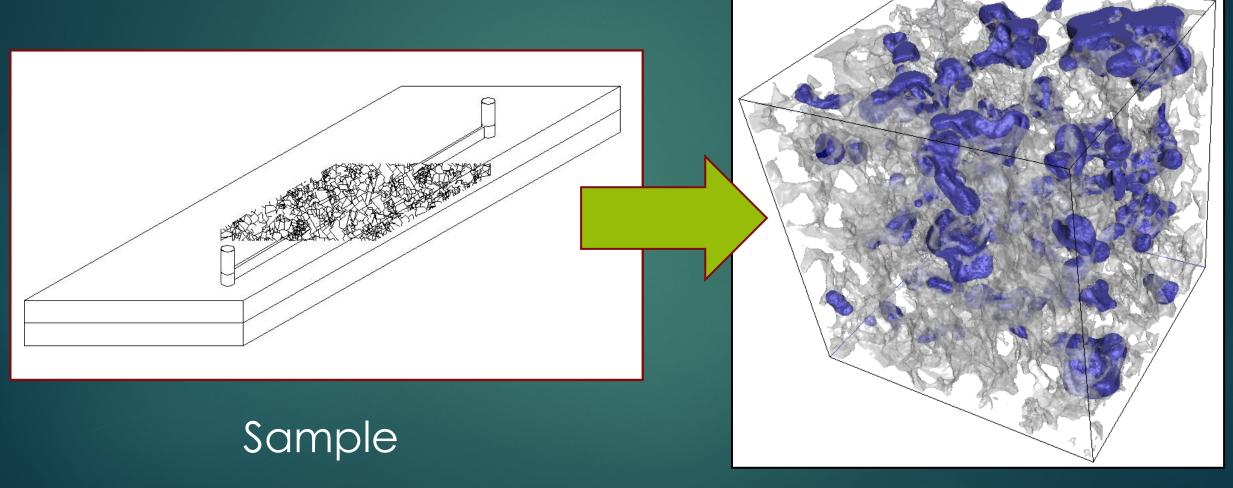
Upgraded Sample Holder System





Transfering Data from Rock-on A-Chip to the Digital Rock





Digital Rock



Thank You

www.Kaia.tech