

# NEWS **Release**

## **ABRISA Technologies**

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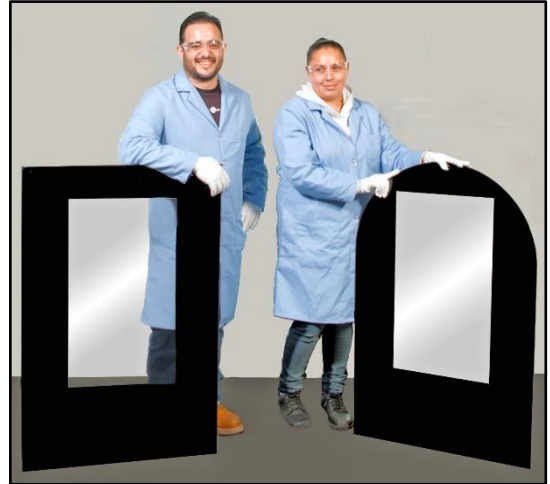
**HEF**® PHOTONICS

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## **Abrisa Technologies Now Has Larger Glass Format HIE™ Chemical Strengthening Capabilities**

April 10, 2023 – Santa Paula, CA – Abrisa Industrial Glass (AIG), a division of Abrisa Technologies now provides High Ion-Exchange (HIE™) Chemical Strengthening (C-Temp) processing for a broad range of their technology and float glass materials in larger sizes up to 46" x 29" (1,164 mm x 736.6 mm) with a diagonal dimension as large as 54" (1346.2 mm) at ≥ 0.8mm thicknesses.

According to Susan Hirst, General Manager for AIG, "Our newly expanded capabilities allow us to provide the display industry with a wide selection of toughened larger format electronic display cover glass, while offering the manufacturing and or 3D sensing robotic vision requiring enhanced resistance to breakage, scratches, and temperature fluctuations."



Susan further adds, "We can HIE™ C-Temp glass as small as 0.5" x 0.5" (12.7 mm x 12.7 mm) and as thin as 0.1" (0.254 mm) and as thick as 2.0" (50.8 mm) at this new larger dimension. Additionally, our thinner HIE™ processed technology and aluminosilicate glasses lend themselves to a vast array of solutions requiring higher transmission, reduced weight, and lower profiles. Ultra-thin glass (< 0.3mm thick) and even larger formats may be accommodated.

Abrisa Technologies is approved for the specialized and material specific High Ion-Exchange (HIE™) processing needed to generate Asahi Dragontrail™, Corning® Gorilla® Glass 3, Schott Xensation®, ultra-thin SCHOTT AS 87 as well as standard and low iron soda lime float glasses. These HIE™ processes increase the strength of technology and aluminosilicate glass materials by 6 to 8X compared to standard float glass and 3 to 5X for C-Temp soda lime float compared to standard soda lime float. The HIE™ high Ion-Exchange processes create a deep compression layer on the surface of the glass structure, reducing the introduction of flaws once incorporated into the glass and put into service.

### **HIE™ Chemically Strengthened Glass Advantages:**

- Improved impact resistance
- Improved flexibility strength
- Improved scratch resistance
- Improved resistance to temperature changes

In addition to HIE™ chemical strengthening, Abrisa Technologies' Total Solution approach gives the market access to precision glass fabrication including position registered features, the application of thin film coatings, various edge treatments, custom cutting and drilling, screen printing, Bus Bars, and more with single-point accountability.

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## Expanded Chemical Strengthening Capabilities

[Abrisa Technologies](#), a member of HEF Photonics, is a globally recognized technology glass fabrication and optical thin film coating company with expertise in high volume manufacturing and engineering capabilities, delivering Total Solutions that provide excellent performance, fitness-for-use, and economies of scale.

Our US based, state-of-the-art ISO 9001:2015 and ITAR registered facilities include Abrisa Industrial Glass in Santa Paula, CA, and ZC&R Coatings for Optics in Torrance, CA. These two divisions produce solutions from cut-to-order coated glass components to custom complex and ready-to-install fabricated, strengthened, optically coated, electronically enabled, and branded sub-assemblies.

Our Total Solutions serve a variety of markets including Micro-Electronics, Defense and Avionics, Display, Industrial Automation, Optical Sensors, Imaging, Photonics, Medical & Dental, Life Science, and more.

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