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## **Abrisa Technologies Provides Value-Added Fabrication & Coating Services for Customer Furnished Material**

July 1, 2023 – Santa Paula, CA – Abrisa Technologies and its two business units, Abrisa Industrial Glass (AIG) and ZC&R Coatings for Optics (ZC&R) who are known for their ready-to-install [Total Solutions](#), now offer an even wider selection of value-added services on a jobbing basis applied to Customer Furnished Material (CFM) whether it be sheet glass, wafers, filter glass, finished components, or customer pre-coated or fabricated materials.



Abrisa Technologies' value-added services on CFM include: wafer dicing or circle grinding of coated wafers and filters, CNC machining of notches and mounting or locator features, chemical treatment of shaped and slumped glass, PVD deposition of optical coatings, screen printing of graphics or bus bars, edge treatments, laser engraving of unique identifiers, laser cutting and installation of sealing gaskets, application of safety and other films, and more to support customer specific requirements. Abrisa Technologies will do their utmost to accommodate specification requirements within our manufacturing methods and guidelines.

According to Susan Hirst, General Manager for AIG, "Utilizing Abrisa Technologies to provide high-quality value-added fabrication and/or optical coating services often makes sense when customers find themselves with a manufacturing capability or equipment gap, are short on manufacturing personnel, have a desire to refocus in-house manufacturing and engineering talent on critical "core" technologies (make vs. buy scenario), or are in need of additional capacity to help meet their customer schedules and volume demands. That is where Abrisa Technologies can step in and alleviate temporary or long-term manufacturing bottlenecks in a quick-turn response." Susan further adds, "We have put specific inventory and work order control systems in place to receive, store and then allocate CFM materials of nearly all glass material types, including supplied sheet glass, into our production environment, where we then execute all the fabrication and value-added processing requested for the desired format, dimensions, shapes, and features needed."

Lisa Tsufura, Thin Film Product Manager for ZC&R states "Coating customer furnished material, and custom coating design is a regular part of our company's PVD coating service business. Our in-house adjustable tooling, semiconductor industry standard format wafer tooling, and custom tooling capability allows ZC&R to readily process many large formats and shapes as well as accommodate sizes down to several mm's.

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## Customer Furnished Material (CFM)

Customers with their own PVD coating capabilities often use ZC&R to provide specialty coatings as Index-Matched Indium Tin Oxide (IMITO), wide angle sensor AR coatings, IR, and specialty filters that they either can't make, or where our processing and capacity affords them a more economical production path with volume throughput they cannot achieve. ZC&R also provides coating services for customer supplied designs." Lisa further adds, "Customers with CFM also benefit from the same expertise and volume manufacturing experience we use for our own coated solutions including considerations for fitness-for-use as; transparent conductive performance, biocompatibility, chemical and damage resistance, oleo/hydrophobicity, environmental survival, and more."

AIG and ZC&R have nearly 125,000 sq. ft. of manufacturing space with class 100, 1,000, and 10,000 clean rooms and can comply with many industry quality standards such as ANSI, ASME, ASTM, NCSL, MIL, including MIL-PRF-13830B, DIS, JAN, and SAE. Abrisa Technologies' Quality Management System has its foundation on the International Quality System Standard ISO 9001:2015. Abrisa Technologies strives for excellence through various SPC (statistical process controls) methods such as control charts, continuous improvement, and design of experiments to name a few as well as the use of 5S's methodologies.

For CFM material processing, all requirements and specifications including quality standards are coordinated prior to acceptance, and Abrisa Technologies cannot process certain CFM materials which are hazardous to the waste stream.

[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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