## Abrisa Technologies - Total Solutions

## Displays • Sensors • Scanners • More

Total Solutions by Abrisa Technologies are ready-to-install enhancement glass solutions for the Display, Scanner and Sensors markets. Total Solutions can be made from cut-to-order anti-reflection (AR) coated or non-glare (NG) glass, or damage resistant HIE ${ }^{\text {TM }}$ aluminosilicate to exact specifications, have screen printed graphics, oleophobic or optical coatings applied, and film and gaskets installed; all provided by one partner, Abrisa Technologies.

Customers choosing Abrisa Technologies benefit from our experience and expertise in volume industrial and scientific glass as well as our engineering knowhow in coatings and light based applications, that allow us to deliver Total Solutions designed for manufacturability, and an excellent balance of performance and economies of scale.

## Other:

- ISO 9001: 2015 Process Controlled
- Product Verification \& Metrology
- LOT, S/N, Spectral Curves, Traceability
- Environmental, Adhesion, Scratch Testing
- ITAR, REACH, RoHS, Conflict Materials
- MIL, ASTM, CIE Standards
- Inventory \& Stocking Arrangements



## Product Capabilities:

- Large Inventory of "Technology" Glass
- Volume Fabrication: Cut-Seam to Complex CNC
- Safety: Strengthening, Tempering, Films
- Non-Glare, Anti-reflection \& Custom Coatings
- Special Effects: Mirrors, Beamsplitters \& Films
- AR, IMITO, Bus Bars, Filters, UV/NIR Blockers
- Color Matched Durable Screen Printed Graphics
- Damage, Smudge \& H2O Resistant Solutions
- Value Added - Films, Tints \& Gaskets


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Voice-of-Customer Driven


Total Solutions - Ready-to-Install


Chemical Strengthening (DOL)


ISO 9001:2015 Process Controls


Verification \& Metrology


Heat Tempering Stress Testing


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## Manufacturing Capabilities



CIE/PMS Color Match


Scratch \& Adhesion Testing


## Voice-of-Customer Driven

- Collaboration with Customers
- Innovative Total Solutions
- Designs for Manufacturability
- "Quick Quote" Responsive
- Market Knowledgeable


## ISO 9001:2015 Process Controls

- Review of Requirements
- Process/Product Documentation
- Consistency \& Quality
- Data \& Tracking
- Regulatory \& Other Compliance
- ITAR, REACH, RoHS, C of C
- ERP/MRP for On Time Delivery


## Manufacturing Capabilities

- High Volume Fabrication
- Complex CNC Configurations
- Standard \& Custom Coatings
- Wide Mix of Process Options
- Micro to Meter Sizes

Total Solutions - Ready to Install

- Ease of Supply Chain
- Fabrication, Strengthening, Coating, Graphics, Films
- Thin HIE ${ }^{\text {TM }}$ "Technology" Glass
- "Special Effect", ITO, Solar, Oleophobic Coatings
- Frit, IR, Deadfront Graphics


## Verification \& Metrology - CIE, ASTM, MIL, NIST

- Traceability - Melt, LOT, S/N
- Features - Machine Vision
- Spectrophotometry - UV-MWIR
- Adhesion, Scratch, Drop Ball, Color, Tempering
- Environmental Testing


## Standard Testing for Display

- PMS CIE Color Matching (Colorimeter)
- Scratch \& Adhesion - ASTM D 3359-97
- Chemical Strengthening (DOL) - ASTM C 1422-99
- Heat Tempering (Stress Pattern) - Polarimetry


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## Glass Fabrication



Coating Deposition


CNC Machining


## Strengthening - Chemical \& Heat



Screen Printing of Graphics


Abrisa Technologies is a recognized global supplier of high quality, fabricated glass components, optical thin film coatings, and custom glass solutions for a wide variety of industries.

Our US based Abrisa Industrial Glass fabrication facility in Santa Paula, CA and our ZC\&R Coatings for Optics facility in Torrance, CA serve diverse industries such as microelectronics and displays, semiconductor, military, automotive, aerospace, medical, biomedical and scientific R\&D.

We provide custom specialty flat glass and coating products for applications such as: flat panel display, touch and gesture recognition; visible to IR imaging and surveillance; entertainment, indoor and outdoor lighting; advanced instrumentation; and photonics.


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