

ABRISA

Complete Glass & Coating Solutions



COAT.
ETCH.
PRINT.
PRECISELY.



Glass Fabrication and Well Beyond

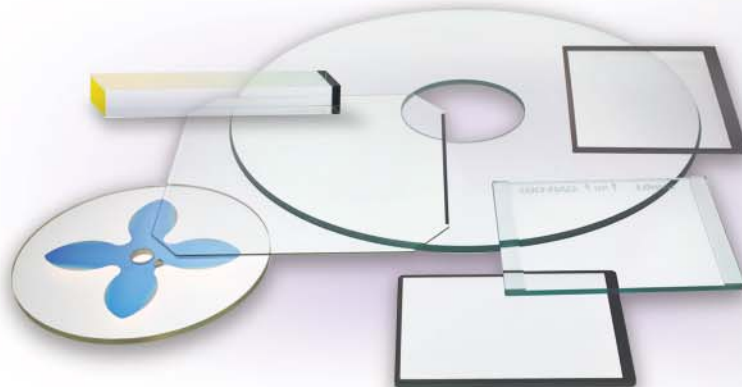
Abrisa, a worldwide supplier of high quality glass products and precision optical coatings, designs and manufactures custom glass solutions for a wide variety of applications. Our broad range of specialized, in-house capabilities allows us to provide you with a host of integrated glass and coating solutions.

With multiple manufacturing facilities, Abrisa is *uniquely* qualified to deliver complete glass and coating solutions, from basic glass components to the most complex devices.

Our innovative design engineers and expert production team work diligently to develop, specify, and create efficient, cost-effective glass products optimized for your specific needs. We can then incorporate a variety of value-added elements to create finished glass assemblies.

These include screenprinting, busbar, etching, machining, adhesion of gaskets or other parts, and the application of optical coatings. The result is a finished product ready for integration into your project – all from a single source.

- Assembly
- Screenprinting
- Busbar
- Etching
- Strengthening
- Machining
- Metrology
- Cutting
- Cleaning
- Specialty Packaging





Everywhere You Turn

It's easy to spot us. Abrisa glass products are used in applications around the world. From architectural lighting to cockpit display panels, from slot machine assemblies to medical optics, our production team has delivered products for thousands of applications in a myriad of markets.

Applications include:

- Architectural Lighting
- Entertainment Lighting
- Flat Panel Displays
- Touchscreens
- Instrumentation
- Industrial Glass Panels
- Scanners
- Heated Windows
- Imaging & Sensing Devices
- Electronics
- EMI / RFI Shielding

We supply products to the following markets:

- Commercial
- Industrial
- Lighting
- Military / Defense
- Surveillance
- Aerospace
- Medical / Biomedical
- Scientific
- R&D



Plus the Extras...

Abrisa can apply a variety of precision processes, individually or in combination, to any glass substrate. Some of our capabilities include:

Cutting

Glass cutting services include precision cutting of shapes and circles, waterjet cutting, glass tube cutting, and precision sawing of squares and rectangles.

Edging

Finishing the sharp edges of cut glass is applied for safe handling, chip reduction, or aesthetics. We provide angled and multilevel bevels, seams, corner dubbing, circle or flat ground, pencil, and polished edging.

Screenprinting / Etching

New technology and state-of-the-art equipment allow for high precision printing accuracy. We can combine conductive or display inks and custom colors using epoxy, enamel or ceramic-based inks for busbar, display, logo, and lettering applications. Opaque and semitransparent inks are available.

Machining

Our machining department provides precision step and route surface, CNC processing, holes and tapers, countersink or inside dimension seaming, sandblasting, lapping, notching, slotting, grooving, buffing, and laser marking.

Assembly

Abrisa provides value-added assembly work which includes gasketing, pressure sensitive adhesives, and lead wire soldering.



Glass Strengthening

Strengthening

Two methods of strengthening are available: Heat (tempering or strengthening), and chemical strengthening. The method used is determined by the type of glass, size, thickness, optical accuracy needs, and industry quality standards.

Metrology

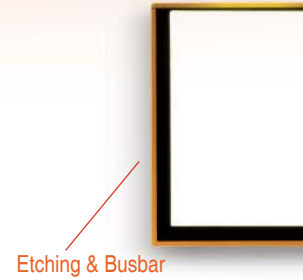
Prior to packaging, parts are inspected for surface and internal flaws via a series of rigorous tests to ensure that cosmetic requirements are met.

Cleaning

Our highly controlled cleaning processes include an array of specialized flat glass washers, ultrasonic tanks, automated dryers, and our Class 100 clean room to meet the most rigorous standards in the industry.

Specialty Packaging

Abrisa also provides private label and specialty packaging. Electronic parts can be packaged in gel caps, electrostatic bags, bar coded and stocked to customer specifications.



Etching & Busbar



CNC Machining



Cutting



Specialty Packaging



Precision Coatings

Drilling



Multi-Colored Screenprinting





Glass Selection

Choosing the right glass for each project is based on our extensive knowledge of glass properties and its makeup. Thermal, optical, chemical, electrical, and mechanical properties are evaluated for optimum performance prior to final selection of the glass materials used to fabricate your product. We carry an extensive line of substrates from which to choose including:

- Soda Lime
- Schott Borofloat® – Distributor
- Schott Tubing & Rod
- Glass-Ceramics
- Quartz & Fused Silica
- Specialty Glass
 - Filters
 - Patterned Glass
 - Colored Glass
- Non-Glare Finish
- White-Flashed Opal

We maintain a large inventory of glass for fast turnaround, and are equipped to provide single units for prototyping, and low, medium, or extremely high volumes – delivered on time, and at the right price.

Coatings - Our Finishing Touch

Our optical coatings are applied via electron beam guns or ion-assisted deposition to influence and control reflection, refraction, absorbance, resistance, glare, and electrical activity.

We provide high-efficiency coatings for industrial, commercial, and opto-electronic use in a variety of applications. Precision coatings include:

- Anti-Fog
- Anti-Reflective
- Bandpass Color Filters
- Beamsplitters
- Cold Mirror
- Color / Temperature Correction
- Contrast-Enhancing Filters
- Covert / Semi-Covert Filters
- Fluorescence Filters
- Front Surface Mirror
- High Power Lasers
- Hot Mirror
- IR Coatings
- ITO and Index-Matched ITO
- LuxVu™ (AR / IM-ITO)
- Metal Coatings
- Neutral Density Filters
- Optivex™ UV Blocking Filters
- Thin Film Polarizers

We also provide and coat:

- Lenses
- Filters
- Prisms
- Mirrors
- Windows



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Abrisa Glass Company
Industrial, Commercial & Optical
Glass Fabrication



Sycamore Glass Components
Custom Flat Optics Fabrication



ZC&R Coatings for Optics
Precision Optical Coatings