

Application Note

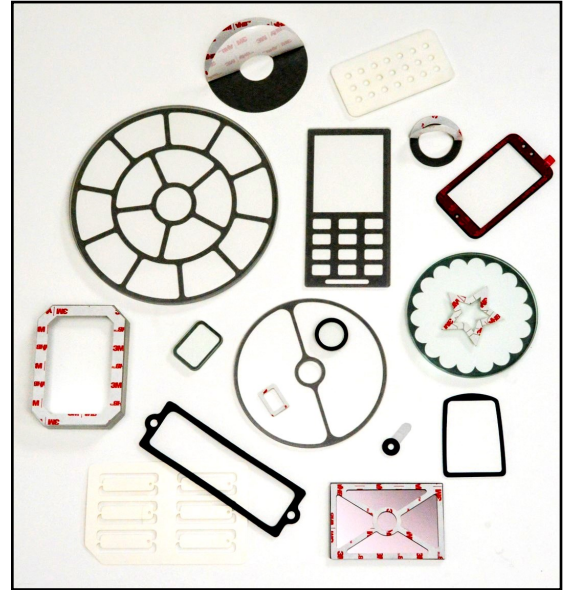
On-Demand Laser Cut Gaskets & Masks - Tapes • Foams • Elastomers

Abrisa Technologies provides in-house, on-demand, fast turn laser cutting of high performance materials used as gaskets and environmental seals for glass components interfaced with metals, plastics, paints, and more. We also provide value-added installation of the gaskets onto coated, screen printed and fabricated glass for integrated ready-to-install Total Solutions. The on-demand laser process accommodates both the quick design changes needed for prototyping as well as the highly repeatable results for volume production, all without the investment of tooling.

The speed and precision of the laser results in crisp and clean edges with a high quality surface finish and consistency. Generic or highly complex geometries and intricate shapes with small features can be created to fit application-specific requirements.

Customer supplied DXF, DWG, STEP, AI, 3D Model or PDF files can be used to create the pattern design of the gasket or mask thereby eliminating variables which could affect the configuration and functionality.

Gaskets can replace mechanical fasteners for longer term holding power.

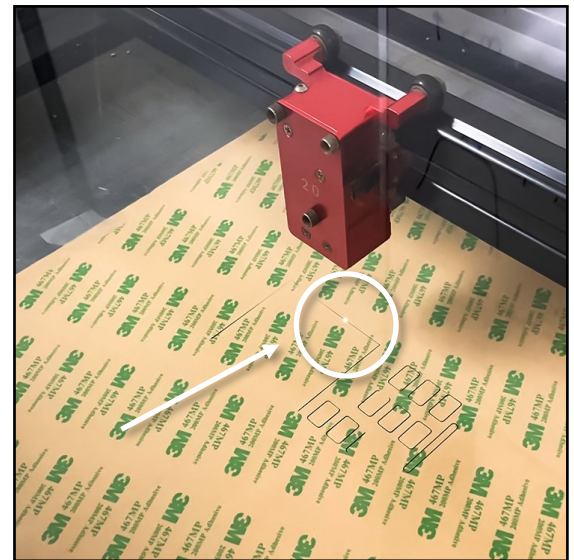


Typical Gasket and Mask Materials Include:

- Single and Double-Sided Adhesive Bonding and Adhesion Transfer Tapes: 3M™ VHB Series: 4926, 5907, 5915, 5925P, 467MP
- Optical Surface Protection Tapes, Elastomers, PVC

Typical Applications:

- Environmental Moisture Seals
- Bonding of Glass to Mounts, Housings and Bezels
- Acoustic Insulation and Vibration Isolation
- Heat Shielding and Thermal Insulation
- Electrically Conductive Gaskets
- Anti-Shatter Protection
- Masks for Patterning



Laser Cutting Process

Typical Laser Cutting Specifications:

Max. Size:	23" x 17" [584.2mm x 431.8mm]
Min. Size:	0.100" x 0.100" [2.54mm x 2.54mm]
Max. Thickness:	0.125" [3.175mm]
Min. Thickness:	0.010" [0.254mm]
Min. Width:	0.04" [1.016mm]



To View the
Laser Cutting Process
on Our Website,
Scan the QR Code

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Glass Fabrication



Coating Deposition



CNC Machining



Strengthening - Chemical & Heat



Screen Printing of Graphics



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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