

**LG International**  
Advancing the technology of labels

*Imagine  
Define  
Deliver*

# Setting the standard for advanced labeling solutions



*Innovation*

## **The LGI difference**

- **Custom engineered labeling solutions designed and constructed for specialized applications**
- **Product identification and components manufactured to the most precise and technically challenging specifications**
- **Fully ionized cleanroom for processing and packaging of cleanroom certified products**
- **UL approved printer, UL and CSA certified constructions**
- **Rapid prototyping and expedited order processing**
- **RoHS compliant label materials**
- **ISO 9001-2000 certification**
- **Worldwide support and distribution**

As a pioneer in cleanroom labels, LGI International established itself early on as an industry leader by applying technology and innovation to create its CleanMark® product line.

Today, our cleanroom products continue to set the standard in the critical environment market. This emphasis on technology and innovation is a core philosophy at LGI, and this approach can be credited to LGI's unique ability to advance the quality and performance of products used in a variety of markets contending with harsh environments and complex needs, including:

- Semiconductor
- Storage Media
- Electronics
- Biotechnology
- Pharmaceutical
- Transportation

## **Teaming innovation with collaboration**

At LGI, we are continuously looking for new and improved ways to address the needs of our clients. Our Research and Development group closely collaborates with suppliers to research, test and construct new and improved products. Client needs are skillfully translated into product specifications through onsite needs assessments, analysis of environmental conditions, and a thorough understanding of product requirements.

Whether we're researching new product concepts or solving a particular need for a client, LGI is adept at transforming ideas and requirements into a meaningful product.

## Prioritizing manufacturing excellence

The labeling products LGI manufactures must consistently perform to extremely tight requirements and standards. As a result, LGI maintains a broad infrastructure of top quality, state-of-the-art equipment, materials, and processes. We continuously research new technology breakthroughs and manufacturing disciplines that enable us to improve quality, service and efficiency to expand our overall capabilities.

## Engineering custom labeling solutions

“Advancing the technology of labels” comes to life with LGI’s Engineered Solutions. LGI evaluates the requirements of each project—including such areas as environmental and chemical exposure, dielectric properties, cleanliness, product design, and regulatory requirements to determine the construction that best suits your application. Often, labeling solutions can be tailored from currently available materials and adhesives. Occasionally, an application has a unique set of requirements that cannot be adequately addressed with available products. In these instances, LGI collaborates with its suppliers to develop new materials or adhesives to ensure the solution meets your specifications.

## Delivering value to your business

At LGI we are committed to bringing measurable value to your business. Our understanding of business and manufacturing environments enables us to more effectively collaborate and contribute to your business objectives. Our products and services are designed with the financial, operational, and competitive value of our customers in mind. At LGI, we prioritize activities that produce measurable benefits for our clients, including:

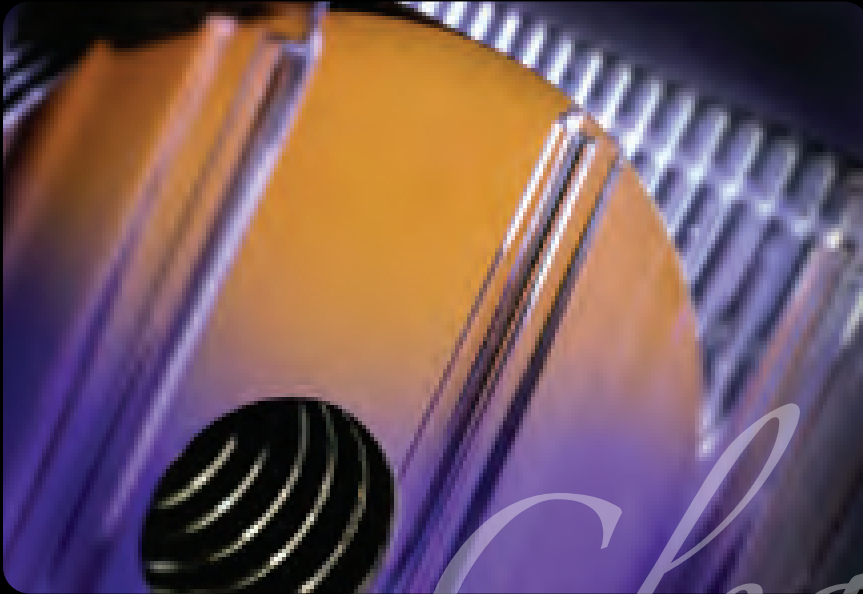
- Researching economical alternatives
- Collaborating with your design team to give your product a competitive edge
- Offering inventory management programs that streamline the ordering process and decrease inventory levels
- Delivering product on-time to spec

*Close collaboration with customers and suppliers combined with a wealth of knowledge and state-of-the-art equipment and materials enable LGI to innovate, design, and manufacture products that meet even the most challenging and precise requirements.*



*Solutions*

# *Specialists in critical environment identification products*



*LGI has a number of labeling products that address needs specific to critical environments, including applications in the semiconductor, storage media, biotechnology and pharmaceutical industries. Labeling products are available blank or preprinted and can be ordered in a variety of standard sizes or customized to your requirements.*

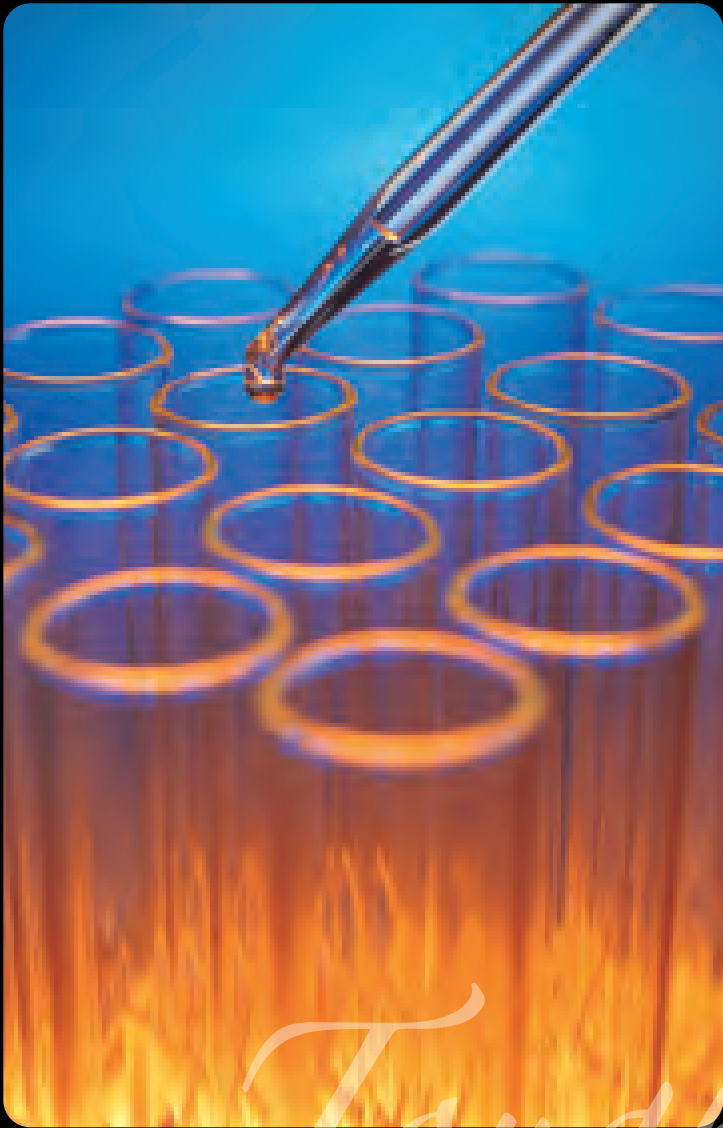
## *Clean*

### **Cleanroom**

LGI's proprietary CleanMark® critical environment labels are manufactured from 100% synthetic facestocks, liners and cores—avoiding particulate contamination issues that arise from coated paper products. CleanMark® products are available as direct thermal and thermal transfer labels, removable notes, and cleanroom tapes with clear or colored liners. CleanMark® label features include:

- Low-outgassing adhesives available in a range of peel strengths, including removable, ultra-removable, repositionable and permanent
- Available with patterned adhesive, zone coatings and deadened adhesive zones
- Sub-micron cleaned and packaged in a fully ionized cleanroom
- Labels manufactured from 100% synthetic facestocks, liners and cores
- Customizable with the widest range of print, cut, punch, slit and perforated options
- Silicone "free" label constructions





## Cryogenic

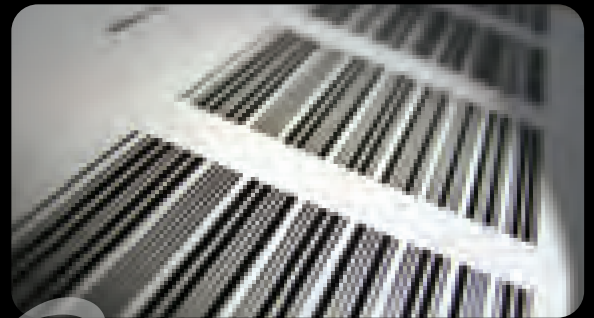
LGI's Cryogenic products are constructed from tear resistant synthetic materials that will not be weakened by moisture or extreme cold conditions. Our materials are top coated for use with thermal transfer printers and can be preprinted, serialized, barcoded or customized to your specific needs. Features of LGI's cryogenic products include:

- Aggressive adhesion
- Ability to withstand liquid nitrogen and deep-freeze environments
- Durable synthetic material
- Thermal transfer printable

## Autoclave

LGI's Autoclave labels are constructed from materials, adhesives and constructions that perform most reliably with excessive temperatures, constant moisture and high-pressure loads. Features of LGI's autoclave products include:

- Heat and tear resistant materials
- Temperature activated ink
- Temporary and permanent adhesives
- Thermal transfer printable



## Printers & Ribbons

LGI's line of barcode printers is ideal for critical environment applications. Order your printer CleanMark® Certified to ensure your printer is processed and packaged ready for use in your cleanroom environment. Printer features include:

- Quick and easy printing of barcodes, text, numbers, graphic images and logos
- Use with wide range of media sizes and types
- Thermal transfer and direct thermal transfer printing
- Easy-to-use barcode software
- Ideal for use with LGI CleanMark labels, notes and ribbons
- National network of service centers for timely printer service and support

# Using technology to define the next generation of labels!



Imagine

## Labels & Nameplates

LGI's extensive production and printing capabilities enable us to address the full spectrum of your product identification needs, including:

- Barcode/serialized labels
- Brand identity nameplates
- UL and CSA approved labels
- RoHS compliant labels

LGI maintains top-of-the-line equipment and refined processes to leverage an array of capabilities, including:

- Digital printing
- Screen printing (roll-to-roll and sheet)
- Flexography (multicolor in-line; patterned adhesive application available; EBI variable information)
- Foil stamping
- Precision die-cutting (roll-to-roll and platen)
- Thermoforming
- Plastic injection molding
- Laser and digital knife cutting

## Components

Many companies can provide a die cut part, but LGI has mastered the art of precision. Our components can be constructed, printed, and cut to even the most precise specifications. When every part matters, trust your components to the experts at LGI. A wide range of custom component offerings are available, including:

- **Insulators & Shields:** Constructed from materials, adhesives and inks specially selected for their dielectric properties along with flame and chemical resistant qualities
- **Lenses:** Clear, display lenses constructed from gloss, anti-glare and hard-coat finishes; available in a variety of thicknesses
- **Gaskets:** Available in a variety of materials, adhesives and thicknesses with dielectric features; heat and chemical resistant
- **Tapes:** Heat and chemical resistant; superior dielectric strength; tear, puncture and abrasion resistant

## Film Insert Molding

Film Insert Molding (FIM) is used to apply clear scratch-resistant hardcoats, logos, text and graphics in any color or combination of colors to plastic parts prior to injection molding. LGI's FIM process and expertise enables us to deliver a number of benefits to our customers, including:

- Support of versioning and individually personalized parts
- Elimination of pad printing, screen printing or foil stamping
- Simplified product assembly
- Elimination of secondary hardcoating
- Integration of clear lenses without adhesives
- Increased design flexibility
- Improved longevity and quality of graphics
- Integration of graphics on curved surfaces

## Security

LGI's security solutions are an effective means to make your product and packaging tamper indicating. Our security capabilities include:

- **Self-destructing labels:** Cannot be removed without some sign of tampering; can be printed with branding, certification and product information
- **Void labels & tapes:** Expose a pattern when peeled off; can be provided with custom void text/patterns
- **Security labels, tapes & seals:** Indicate if a seal has been broken
- **Holographic foil security labels and seals:** Reveal a customized holographic image when tilted in the light

*Define*

*Deliver*

# Advancing the technology of labels

*Excellence  
Innovation  
Integrity*