

Industrial Graphics

- ▶ Labels
- ▶ Nameplates
- ▶ Overlays
- ▶ Gaskets, Shields, etc.
- ▶ Counterfeit Prevention Solutions





The Industrial Graphics Division of GSI Technologies, LLC has been an industry leading producer of custom industrial graphic products since 1985. Our flexible and rigid labels, nameplates, and control panel overlays are used to communicate brand information, mechanical and electrical installation instructions, connection indicators, control panel data, and safety & warning information. We also make a variety of custom engineered gasket, spacer and shielding products. We print and fabricate a broad range of adhesive coated papers, flexible films and rigid polycarbonates, foils, and metals. Most of the applications our customers bring us are considered “tough duty”, meaning our products must be engineered and produced to endure indoor/outdoor temperature and humidity extremes and exposure to destructive chemicals and abrasives. We consistently meet high quality standards because our customers consider our printed parts to be “OEM components” of their own products.



We work closely with our clients from the concept stage through the design, engineering, material evaluation and testing, prototyping and final PPAP processes to assure that our products meet their requirements as well as meeting UL & CSA standards when necessary. GSI has close to 100 UL recognized label and nameplate material/adhesive/printing/overlamine constructions.

GSI Technologies has been ISO Certified since 2001 and we currently hold the ISO9001:2000 Certification. Our quality assurance staff of four fulltime professionals includes a Six Sigma Blackbelt, and their focus is on building first-rate quality in, not asking our customers to inspect mediocre quality out. Our company’s culture is built on a foundation of customer focus and continuous improvement, which results in better products, reduced costs and world class service for our partners.



GSI Industrial Graphics receives high marks for providing real “total system” value – we price our products competitively and help our customers order and use them efficiently and cost effectively

Our Processes...

...a broad array of capabilities to address a wide variety of applications

GSI Technologies' customers are world leading manufacturers of power distribution equipment, industrial process control and material handling systems, electrical and electronic devices, commercial food and beverage preparation and dispensing systems, medical equipment and devices.

Our customers and prospects challenge us with a wide variety of applications. The three common requirements of these applications are product durability, high quality and cost effectiveness. We employ a variety of printing and converting processes to address these requirements:

- Flexographic printing to produce rolled and sheeted labels and nameplates, as well as wiring diagrams, decorative logo graphics and cable markers. Many of these constructions are UL recognized.
- Screen printing, both roll-to-roll and sheet fed, along with a variety of post-print fabricating processes to make rigid and flexible control panel graphic overlays, nameplates, and specialty shielding and spacer products.
- Digital printing and cutting equipment, replicating the appearance of flexo or screen printing, to produce one-off prototypes and small runs of parts with no tooling, printing plate or screen costs.
- Hotstamp equipment to cost-effectively print and cut small quantities of graphic pieces utilizing difficult UL & CSA recognized constructions.
- Fotofinish processing to produce high resolution graphics, sealed at high temperature in nickel acetate to give the look and durability of aluminum – this process yields 25 year UV resistance.
- Computer Driven Visual Inspection systems enable us to inspect 100% of the parts in a production run, therefore meeting the most demanding quality requirements.



GSI offers a variety of “anti-counterfeit” solutions to our clients to help them protect their brands’ good name, avoid lost sales revenue, and reduce product liability exposure and legal costs.

Our equipment lineup allows us to provide good value on order quantities of one to millions of pieces

... and utilize the most cost effective options to produce your graphics pieces

FLEXOGRAPHY

- ▶ Web capabilities up to 13" (Max image 13" x 24")
- ▶ Up to 6 colors
- ▶ Rolled or sheeted delivery
- ▶ UL & CSA recognized constructions
- ▶ Pin feed, fanfold and perforating
- ▶ In-house ink matching to PMS chips or samples
- ▶ Inkjet printing of variable information
- ▶ "Through the window", 2nd surface & 2 sided printing
- ▶ Off-line optical die cutting
- ▶ Computerized vision system inspection
- ▶ Extensive tooling inventory

DIGITAL PRINTING & DIE CUTTING

- ▶ No printing plate, screen or tooling costs
- ▶ Extremely cost effective for prototypes & small orders
- ▶ Custom serialization
- ▶ High quality imaging and intricate die cutting
- ▶ 1st or sub-surface printing

FOTOFINISH

- ▶ Very high resolution printing
- ▶ Silver/Gold background with black copy or image, or black reverse image
- ▶ Satin & Matte finishes
- ▶ Custom serialization
- ▶ Thicknesses from .003" to .125"
- ▶ UL approved & conforms to military specs
- ▶ 25-year UV durability tested - impervious to salt and acid

SCREEN PRINTING

- ▶ Roll-to-roll as well as hand & auto feed flatbed
- ▶ Roll or sheeted delivery
- ▶ Thicknesses from .003" to .125"
- ▶ UL & CSA recognized constructions
- ▶ In-house steel rule and thermal die cutting, embossing, shearing, drilling, cornering
- ▶ Computerized vision system inspection
- ▶ In-house ink matching
- ▶ Clear & translucent colored LED windows and computerized dead-front panels
- ▶ Selective adhesive applications

HOT STAMPING

- ▶ Fade resistant inks
- ▶ Metallic inks
- ▶ UL & CSA recognized constructions
- ▶ Serialization on or under lamination
- ▶ Economical tooling for short runs and special shapes



GSI Industrial Graphics:

Innovative Solutions for Reducing Costs & Increasing Efficiencies

Despite the custom engineered nature of Industrial Graphics products and their critical function, our typical customers consider them to be “C or D” supply chain items. Recognizing this, GSI focuses on helping our customers deal with their graphics components as cost effectively and effortlessly as possible. A single plant may have hundreds of specs for warning and instructional labels, nameplates, wiring diagrams and control panel overlays...each of which is used in relatively small annual quantities. Our GSI team will analyze this mix of graphics products and recommend opportunities to:



- Consolidate multiple labels performing like functions to promote consistency, reduce SKUs and improve ordering efficiency
- Consolidate and reduce the variety of materials being used while still meeting UL and CSA requirements, further improving ordering efficiency
- “Cluster” all graphics parts applied to one product onto a single sheet for cost reduction and efficiency improvement on the factory floor

The “low volume – high mix” nature of custom Industrial Graphics products means supply chain personnel must deal with repeatedly ordering small quantities of dozens to hundreds of different parts, frequently on short notice. This drives up costs, creates paperwork and increases the risk of holding up the shipment of expensive products for a 5-cent label or nameplate. After our GSI team studies a customer’s usage patterns, we can:

- Develop a Kanban program, ensuring that parts are produced in cost effective quantities and shipped as needed or on pre-set schedules
- Implement a “min-max” program to assure that we always have on hand agreed upon quantities of critical parts ready to ship same day
- Utilize our ERP system to tap into our customer’s production schedule, and produce and ship parts for JIT delivery

Our customers have saved hundreds of thousands of dollars as a result of these programs!

About GSI...

GSI Technologies is the intelligent printing partner for Functional Printing and Industrial Graphics products. Our extensive printing experience and dedication to customer satisfaction combined with our capital resources enables us to provide our customers with the highest levels of quality, service and value for their markets.

We're a company with a unique history of experience, innovation and dedication to the highest standards of quality, evident in our products and services and in our Operating Principles.

GSI Technologies is organized in two divisions, Functional Printing and Industrial Graphics, which is registered to ISO9001:2000 standards.

The Industrial Graphics division employs a variety of printing processes such as flexography, web & sheet screen printing, hot stamping, and photo-etching to deliver pressure sensitive labels, polycarbonate panels, film overlays and aluminum nameplates. GSI's label and polycarbonate overlay constructions are recognized by both UL and CSA standards and our aluminum nameplates meet military requirements.

The Functional Printing division is a world leading producer of printed conductive products including diagnostic and therapeutic medical electrodes, electroluminescent lamps, and powered smart card components. Our focus on custom solutions and commitment to excellence enables technical product integrators and OEMs to lower production costs, enhance the performance of their products, and increase the profitability of their businesses.

GSI Technologies - where Intelligent Printing is the intelligent choice

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