

# Global Digitizers

Offers Custom Embroidery and Graphic  
Digitizing Services

Global provides budget-efficient and high-  
quality digitization services

# Introduction:

Global Digitizers is a well-known multimedia brand. Since the industry grows and our quality and on-time commitment most of the time speaks to our work, we serve the digital sector. We provide a one-stop agency for vectorization and digitalization of your needs. We aim for consistency and efficiency, thus always guaranteeing fulfillment because we use the most advanced technologies and resources to give today's market some of the highest quality goods.

Our team consists of highly-qualified skilled professionals, licensed equipment, experienced screen printing technicians, well-trained quality control staff and specialized order management because we understand the importance of the precise specification of embroidered patterns to meet the requirements of our clients. That is why our team of experienced experts guarantees the digitalization of service.

We take extra care to satisfy our valued clients as we consider the importance of communication as such; we continue to always seek to provide you with the most effective and efficient customer service through e-mail and telephone. Customers can contact us anytime for quick responses, as we are only available for you round the clock. Our specialist staff provides the maximum level of quality, and our program supports the ordering and handling of files. Our first priority is “Customer” satisfaction.

# **Welcome:**

Welcome to our squad. We congratulate you to become part of our growing team, and many good wishes on behalf of all team members.

We are all excited about your commitments to our business and your efforts. We recruited you to take a fresh look into how your involvement and strategies can include business case and promotion of every good or service.

Your skills will be used as we progress to the next quarter and we can't wait to see your job and demonstrate some of your incredible abilities. We know you will be our company's great asset.

## **Vision:**

Creating long-term ties with our consumers and delivering outstanding customer service by company creativity and advanced technology. We want to improve business acquisitions and improvements to promote product growth and worldwide expansion in the field of digital embroidery.

We want to take into consideration the choice of people looking for high-quality digital services.

We believe that we are on the right road with great quality, excellent customer service and real value creativity. We have to stand out from the crowd because the confidence of customers makes us special as they are recognized as the key elements of our business success.

## **Mission:**

“Our mission is the fulfillment of your dream”

If you want something to be ideal, it must also be ideally quality work spent. Digitizing is achieved in our business by innovative thought contributions that eventually put the dream to life. It does not achieve good outcomes merely by transforming data into a digital format.

## **Values:**

Creative & eye-catching embroidery, vector art and apparel portfolios.

Organization - Our strategic approach helps us achieve best.

Responsibility - We are accountable for our jobs and are dedicated to professional maintenance.

With no prejudice and 100% support from our hands, we guarantee our quality of services.

## **Graphics:**

What we concentrate on is distinctive and crowd-friendly adhesive templates with top-notch customer service, by refitting every commodity, graphic image or concept.

For each consumer Global Digitizers employs the creative and innovative expertise of designers, experienced digitizers and graphic artist.

We are providing 3D puff, Applique & Tuft, Chenille, 3D embroidery, Sequins embroidery, etc. We tend to additionally deal altogether with the foremost formats like .EMB .DST .PXF .CND .EXP .OFM etc.

## **Raster:**

Graphics are designed to contain images of logos, emblems and symbols in numerous file sizes. Raster image types are usable in pixels reflecting the logo or image forms in different colors. A raster file can't be resized and generated because it can render it loses clarity because it gets distorted because when a picture is zoomed in, the pixels become more noticeable while the background features become blurred.

You probably see a raster picture if you surf the web. Raster, or bitmap, consists of tiny pixel squares. The pixels produce colored pieces and they create pictures when they are mixed. The better the resolution, vice versa, the more pixels in an image.



## Example:

Seeing that the raster images include colored pic-forming pixels, they can not be scaled unless consistency is sacrificed. When a raster is expanded, the pixels become distorted. To maintain quality the smaller the size (per-inch pixels), the smaller the image.



# **File Formats for Raster Images:**

Raster files are saved in various formats:

- .tiff (Tagged Image File Format)
- .psd (Adobe Photoshop Document)
- .pdf (Portable Document Format)
- .jpg (Joint Photographic Expert Group)
- .png (Portable Network Graphic)
- .gif (Graphics Interchange Format)
- .bmp (Bitmap Image File)

## **DIGITIZING:**

The most challenging part of the work is seeking a high-quality digitizing service for your image, art, photographs or any vogue. Our services enable shoppers to inflict competitive rates in the most basic models on the market, which are not difficult in a fast turnaround.

We know how the embroidery digitizing process works, supplying you with the best value and efficiency. The designs are designed to minimize thread changes and to operate seamlessly on your embroidery machine.

## **Left Chest Logo Digitizing:**

The digitizing of a logo relates to a technical procedure in which the emblem becomes a computerized embroidery file. Once the embroidery machines have been upgraded you will be able to sew your emblem on coats, skirts, t-shirts, belts, and more.

## **Cap Embroidery:**

The dosage of personalization and configuration options is one of the most common types of holding, accessible through the latest technologies for cap embroidery digitization. Our committed and economic team of digitizers, who interpret and change the research as though it were theirs, retains our outstanding quality in Caps Embroidery.

## **Jacket Back Digitizing:**

Global digitalization is a leader of personalized digitalization systems for Jacket Backs, in particular. For your whole back / extensive models, we give you an especially fantastic digitalization in the near term as a distinction between our businesses. There are outstanding forecasts for our common place customers, promotions on full back orders are always given.

## **Other Digitizing:**

Global Digitizers offers a wide range of embroidery digital designing that involves digitization of boots, leather belts, towels and a number of fabric as per customer needs.

## **Raster to Vector:**

Global Digitizers also offers Vector Art Conversion Service instruction wherever we are inclined to turn your lower / training pictures into high quality art.

## **Vector:**

Vector graphics are ideal for additional structured images such as uniform color line art graphics. Compared to its raster, a vector format image maintains file sizes to a minimum. This is beneficial if file size or image capacity is restricted. Although there are many benefits for a vector image file, synchronization problems arise when sharing.

Vectors are using a particular picture processing method. Such directions and curves are defined by the formulae of mathematics. Such routes and curves are only created through vector-designed design software, such as Adobe Illustrator and Sketch. The vectors are infinitely scalable thanks to their algorithm and are flat and clean even if they are large enough.

### **Example:**

Raster pictures are the best for portraits, whereas the vectors are better for labels, diagrams, engravings, artwork, signs and holding. As you can see the left one is a vector image and the other is a raster, when it is enlarged the pixels of the raster image appears as squares.

# File Formats for Vector Images:

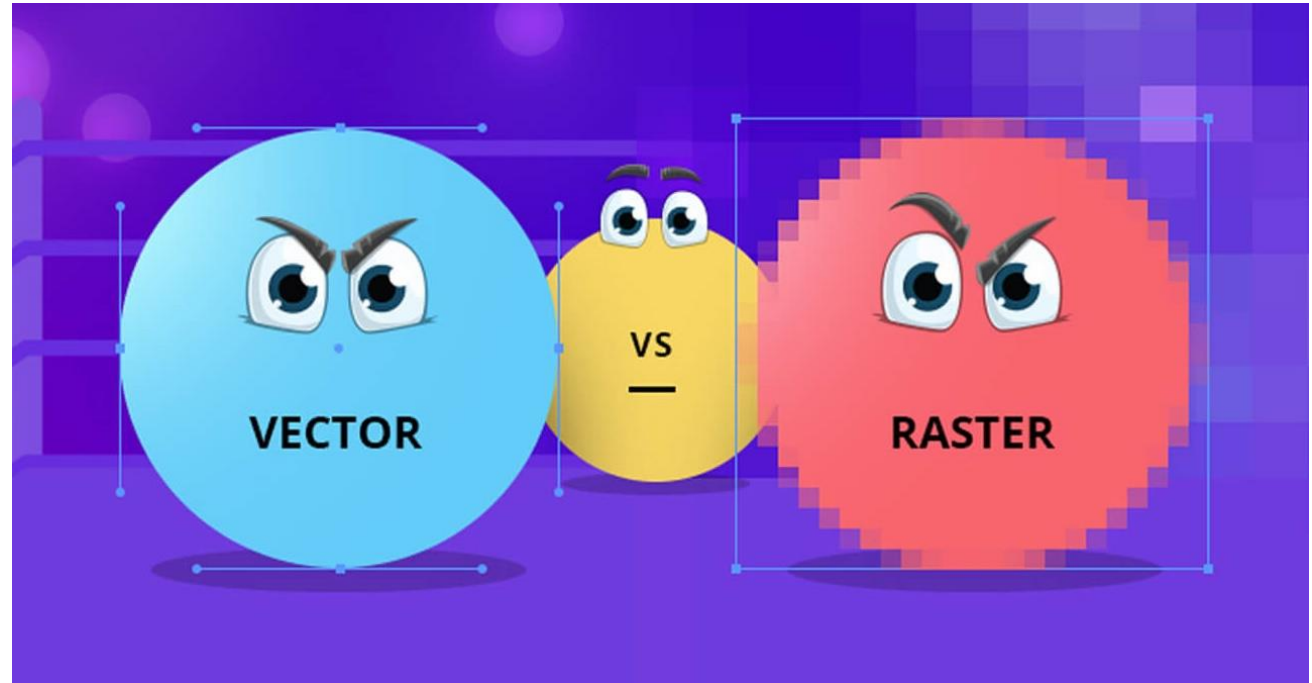
Vector files can be saved or edited in these formats:

.ai (Adobe Illustrator document)

.eps (Encapsulated PostScript)

.svg (Scalable Vector Graphic)

.pdf (Portable Document Format; only when saved from vector programs)





## Advantages of Vector Images:

**Scalability:** It's always as simple as the original, no matter how big or small you render a variable.

**Small file size:** Vectors utilize pathways instead of pixels, so file sizes are significantly smaller than pixels.

**Easily editable:** You can manage colors, forms, proportions, interface and more with a vector format.

# Raster v/s Vector:

Raster Graphics	Vector Graphics
They are composed of pixels.	They are composed of paths.
In Raster Graphics, refresh process is independent of the complexity of the image.	Vector displays flicker when the number of primitives in the image become too large.
Graphic primitives are specified in terms of end points and must be scan converted into corresponding pixels.	Scan conversion is not required.
Raster graphics can draw mathematical curves, polygons and boundaries of curved primitives only by pixel approximation.	Vector graphics draw continuous and smooth lines.
Raster graphics cost less.	Vector graphics cost more as compared to raster graphics.
They occupy more space which depends on image quality.	They occupy less space.
File extensions: .BMP, .TIF, .GIF, .JPG	File Extensions: .SVG, .EPS, .PDF, .AI, .DXF

# Uses of Vector Images:

1. Sign Making.
2. General Graphic Design.
3. Animations.
4. Printing.

**1. Sign Making:** Signs are in all shapes and dimensions and many are created using some form of the initial vector drawing. Although the different production processes differ, each involves the vinyl cutting of the matching colors.

**2. General Graphic Design:** Graphic designers are achieved in many respects with many devices, but vector imaging is a very simple canvas for producing various forms of graphics like logo or drafts due to its simplicity and durability.

**3. Animations:** Graphic designers are achieved in many respects with many devices, but vector imaging is a very simple canvas for producing various forms of graphics like logo or drafts due to its simplicity and durability.

**4. Printing:** The printing process is for duplication by a master type or prototype of text and images. Publishing is a copying method for text and images, typically using an ink on paper printer.

This process is often done as a major industrial operation and is a key component in editing and publishing. We use vector for following methods:

- Digital Printing
- Flexography
- Screen Printing

**a) Digital Printing:** Digital printing is the replication of digital images, for example that plastic, on the actual surface. It is possible to distinguish between litho printing in many ways, some of which are; each impression on the material can differ from several hundreds or thousands of impressions on one plate, as in traditional methods. The toner or ink is not absorbed in the paper, like conventional ink, but rather shaping a layer on a surface.



Printing at home or in an office is subdivided into:

**Small format** - (up to book sheets), as in the workplace and library applications

**Wide Format** - (up to 3' or 914mm wide rolls of paper), as utilized in drafting and design establishments.

Some of the most popular printing technologies include:

**Blueprint** - in which chemicals technologies are with associated

**Daisy wheel** - in which characters are independently pre-formed

**Dot-matrix** - the random arrangement of points with a number of printer bolts

**Line printing** - where formed signs are used by lines on paper

**Light conversion** - like early fax or current light-applied receiving printers on special paper converting black into a printed picture

**Inkjet** - like bubble-jet, in which ink is sprayed to create the desired picture in print

**Electrophotography** - where toner is drawn and produced to a charged picture

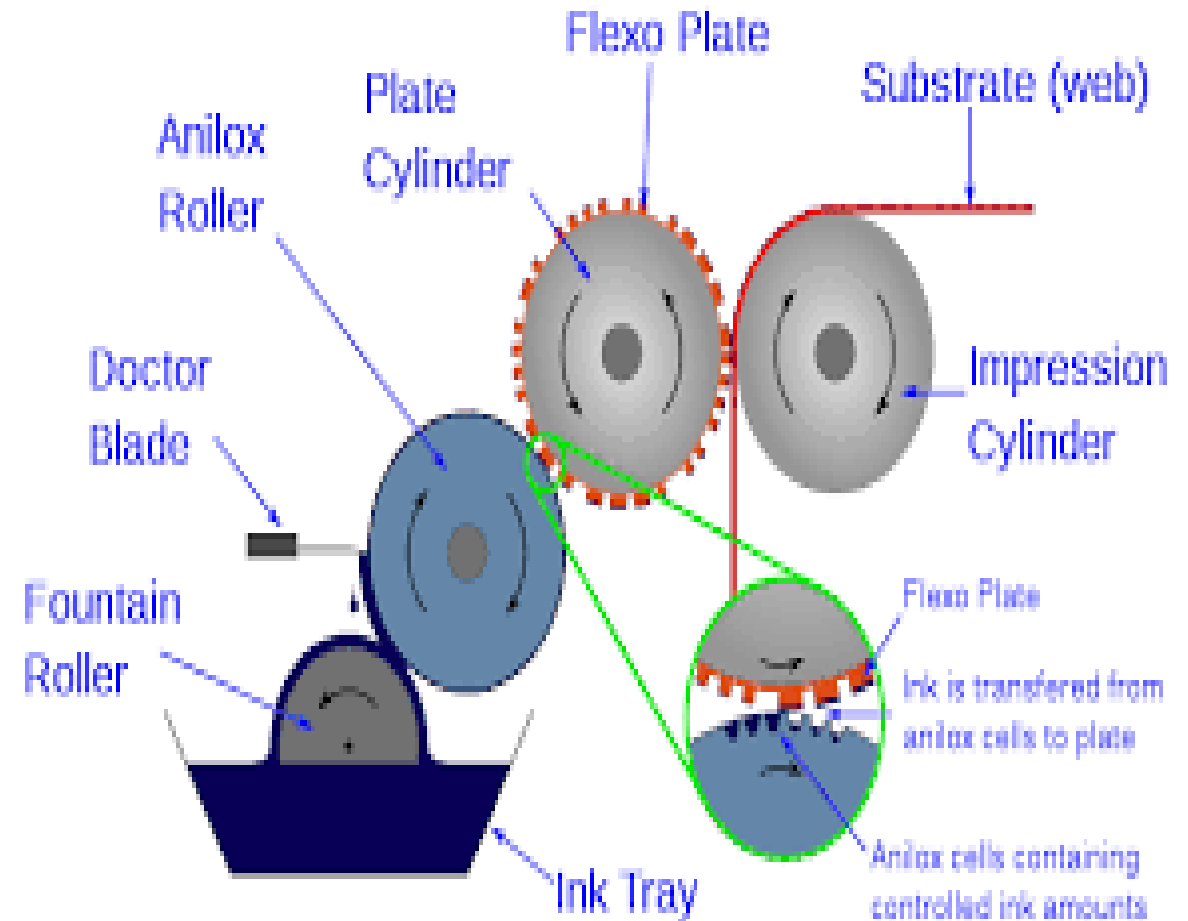
**Printer** — when ink blocks or liquid toner are melted. Vendors usually underline the actual costs of operating the product, with complex calculations that include all expenses involved in the operation as well as costs of capital equipment, amortization, etc.

**Laser** - a kind of xerography in which the charged pixel representation is published with a solid laser ink

**b) Flexography:** Flexography is a high-speed modern printing process suitable for most applications in packaging and labeling. For various mass-produced products it allows for quick, cost-effective, quality label printing.



The starting material is a roll in flexographic printing, passing by a series of flexible rotating reliefs. Each flexible platform is supplied by a specialist roller with ink with a single flexible platform for each printed color. The relief sheets work in conjunction with the finished print product in all colors. When external processes such as lamination, printing or die cutting are required, they can be combined in a single pass together with printing, which significantly increases the processing speed and ability over more classic printing methods



Flexographic printing often allows different substrates to be produced including:

Paper plastic films

Non-woven cloth

Corrugated metal screen

Multilayered video composites

Multilayered content

This versatility of the packaging led to increased use of this brand in a large selection of products, such as:

Self-adhesive labels

Cut & stack labels

Food packaging & Plastic bags

**c) Screen Printing:** In that phase, the ink is directed to the target substance through a mesh or stencil. Then the liquid only passes to areas allowed by the glass by cutting or by the impermeable content.



# Process/Steps of Screen Printing:

The screen-printing process is started by taking the artwork and arranging it to be printed using a computer program (like CorelDraw, Photoshop, or Illustrator, whether created from scratch, supported or downloaded from the Internet). Preparation includes formation, alteration, painting and separation of color. Each color in the picture usually represents a color screen in screen printing and you have to split the colors from the design to create different color screens.

You print a positive image with a plain translucent backdrop, which is the positive for your photo or a different color screen.

During an exposure process in order to keep the screen clear, it is necessary to prevent the light from entering the region of the screen as it is designed to block it for a display image. Screen printing starts by creating art that is moved on to a supportive screen and eventually. You need to have exposure to a quality film output printer in order to create a positive quality.

It's time to show a screen after the positive is made. A film is placed in a clean area in the screen-printing process; it is scrubbed to purify the mesh so that the image holds to the best extent possible. The panel is subsequently dried in a clean and light-sensitive setting. This whole cycle in a darkroom is done.

You wash the unexposed water emulsion upon application. Many shops have a screen-printing bath. It makes it much easier and safer to wipe and disinfect cameras. It is cleaned and then wrapped around the edges after thoroughly cleaning the panel, so that shimmer cannot get across its surfaces.

It's time to start printing shirts and set up the job now. The production or documentation of a job is a vital part of the process; the accuracy of your print is best dictated by it. Registration marks are usually drawn on positive colors of the image and burnt on your computer during exposure. Through lining any color / screen to these trademarks, a work can be registered. The picture should also coordinate if every device aligns with the points.

It is time to print for a final proof and start production after the assignment is recorded. How much goes into a job before the actual production starts is awesome— that is why you can reduce the time set-up and optimize your print run with the best tools for your project that suit the start-up budget.

There's something very important to remember before you continue production screen printing: you can't print shirts more easily than you can heal / dry shirts. On a suit, there are two explanations for drying dye. The first one is to blink. If you print on a dark robe, you usually have to put a white base first, so that the color can appear bright and cool. You will have to highlight the cure after you print this white base so that you can print ink.

Printing wet ink on more wet ink is only equal to a disaster, with the first sheet of ink being a flash driver just enough to help wet ink on it. The second reason a shirt is dried is to make a final solution of the dye, so that the ink is inserted into the fabric. This is simpler and more convenient to use a conveyor dryer while you should use a flash dryer to achieve this final remedy. The damp shirt is provided by a conveyor dryer, and the shirt is pushed into a hot oven (healing the ink on the shirt) and written on. Most smaller companies have no money for starting up a conveyor. When you learn this, expect to install a conveyor as one of your first updates when you can. Once the shirt has been designed and you will be ready to sell and make money.



When you make progress in screen printing, you will see that the ability to operate effectively has to do specifically with the right tools and learn how to use these devices.

**Vector use for Illustrator:** Millions of designers and artists are using industry-standard vector graphics software to create their excellent online and tablet images, labels, symbols, book drawings, product packaging and billboards.

Illustrator is a software for the development of visual drawings used by artists and graphic designers.

Such photos are then used in print and digital media for corporate advertisements, promotional purposes or even for personal work.

The illustrator artwork is modeling software based on vectors, so that it can scale down to billboard level for mobile screens – and it always appears slim and stunning.

Many are frightened by Adobe Illustrator because they believe they have no technical experience. Why do you think you should draw on the screen if you can't draw on a paper? Although this problem of oneself definitely is not the right way to see stuff, Adobe Illustrator does not really need previous knowledge of drawing or painting.

You can render freely available sketches with this application, but you can also import an image and use it as a reference to trace and recolor an individual subject – turning it into an artistic work that looks like you drew it by yourself.