

**DIAGRAPH**

MAKE THE PERFECT MARK



# DIAGRAPH INTERNATIONAL



-  Diagraph Head Office
-  Regional Centers
-  Sales Partners

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MAKE THE PERFECT MARK



# WHAT IS DIAGRAPH?

Simple. Competent. Reliable.

Diagraph is a pioneer in the manufacture of industrial marking solutions – and has been since 1893. Today we provide the perfect marking solution for every industry, and our products set the standard in reliability. This reliability is also a feature of our service, whether this is keeping to deadlines or being available to our customers.

As competent specialists in the field of product marking, we find the perfect solution for any application. We see our customers as equal partners.

Our goal is always to make product marking as simple and straightforward as possible. This saves the customer time and money.



simple



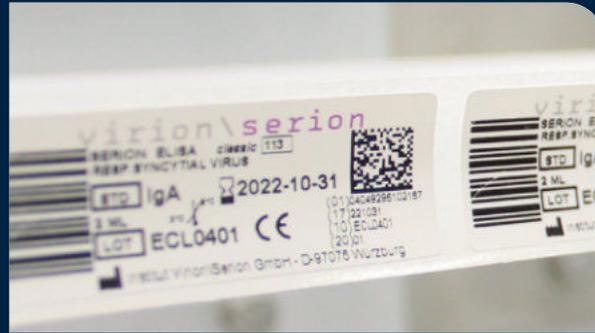
competent



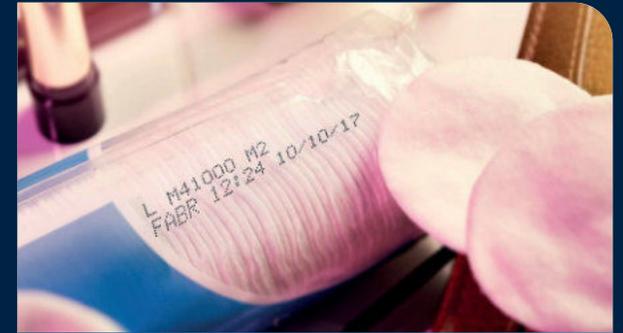
reliable



FOOD INDUSTRY



PHARMACEUTICAL INDUSTRY



COSMETICS + BODY CARE

# INDUSTRY OVERVIEW

## Marking made simple

*In every industry, special challenges arise when marking products, outer packaging or pallets. Diagraph provides optimal solutions for your industry too, to mark all your products simply and reliably. So that more and more customers are enthusiastic about your products.*

### Food industry

The cost pressure in the food industry is huge. Every cent counts when it comes to marking.

Diagraph printing and labeling systems feature low operating costs, minimal maintenance, and ease of operation. Also, our labeling devices enable you to quickly and easily react to changing statutory requirements.

### Pharmaceutical industry

Manufacturers in the pharmaceutical industry are increasingly fighting against counterfeit products.

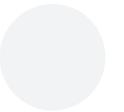
With marking systems from Diagraph, you print clearly readable codes for product traceability even with high cycle rates, and you can also reliably comply with all statutory requirements relating to product marking.

With perfect coding, you and your customers are protected against counterfeiting.

### Cosmetics + body care

Cosmetics manufacturers must increasingly protect themselves against product piracy and their customers against possible health risks.

Against this background, it is all the more important to ensure full traceability of products. Another important criterion is the print quality when labeling cosmetics products. Labeling systems from Diagraph meet these challenges with perfect coding – and we can do the same for your company too.





BEVERAGE INDUSTRY



INDUSTRIAL PRODUCTS



CHEMICAL INDUSTRY

### Beverage industry

Clearly readable product labeling is essential in the beverage industry.

Poorly labeled or unmarked products are unsaleable and must be recoded or even destroyed.

With Diagraph labeling systems you can reliably print clearly readable codes, even under challenging environmental conditions and with high line speeds.

### Industrial products

The requirements in the industrial sector are high and range from the harshest environmental conditions to production in clean room conditions. Whether plastic parts, metal surfaces or pallets – Diagraph

labeling systems meet all requirements. The result is perfect print images on all substrates and packaging types.

### Chemical industry

In the chemical industry, powdered, liquid and solid products are packed and labeled. The environmental conditions range from dusty to humid and, in some cases, strongly fluctuating temperatures. This places high demands on the labeling technology.

Our printing systems have been developed for these tough conditions and they guarantee a perfect print result at all times.





LARGE CHARACTER CODER



CONTINUOUS INKJET

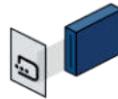


THERMAL INKJET (HP)

# PRODUCT PORTFOLIO

The right printing system for your requirements

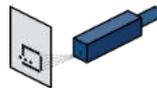
## Large character inkjet



Diagraph large character inkjet printers are the optimal solution for labeling on paper, wood and cardboard, and they are suitable for large print images of up to 100 mm high, consisting of text, logos and barcodes. There are (virtually) no limits to their application and they produce excellent results even under extreme stress such as 24/7 deployment.

Of course, we can develop a solution specifically for your company, tailored to your specific requirements.

## Continuous Inkjet

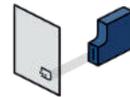


Continuous inkjet print (CIJ) has become indispensable in today's labeling system landscape. It is used in all sectors, be it for

eggs, bottles, other necessities of daily life, or automotive components and cables.

It enables precise and fast product labeling with low ink consumption and is suitable for a diverse range of applications.

## Thermal inkjet



The simplest inkjet printer for industrial applications: The Diagraph printing systems TJ500 and TJ1000 feature rapid installation, ease of use, low maintenance, and a perfect print image on all surfaces. And the lowest investment costs.





**THERMAL TRANSFER PRINTER**

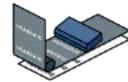


**LABELING SYSTEMS**



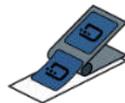
**HOT FOIL CODER**

### Thermal transfer pinter



Our thermal transfer printers enable highest quality printing on packaging for foils, sacks and bags, and they guarantee perfect print images on small and large surfaces with different product contents. German-manufactured, our thermal transfer printing systems guarantee robustness, reliability, and optimal print quality.

### Labeling systems



Do you want fully automatic application of labels to your products? Then our labeling systems are exactly what you need – whether its application of pre-printed labels or printing and dispensing of blank labels at the line.

Diagraph labelers are tough and, thanks to the fully electric drive, they are extremely precise and, at the same time, very economical.

### Hot foil coder



Since the introduction of labeling obligations for packaging, hot foil printing systems have been a proven solution in the industry. Our analog S-Compact coding systems are sophisticated, reliable and robust, as they demonstrate on a daily basis with high cycle rates of up to 800 prints per minute.

They do not require any software or ribbons and are especially suitable for labeling applications where the printing task remains constant over long periods. Even today, hot foil coding machines are the ideal solution

when applying dates or graphics. The result is print images of the highest quality at low cost.





THE HUMAN FACTOR



ENGINEERING



SOFTWARE



## OUR SERVICE

The right solution for every problem

### ✓ THE HUMAN FACTOR

At Diagraph, the customer is not a number – you are the focus of everything we do. Therefore we offer you personal service with a high level of competency and empathy. You speak to us directly. We take care of your concerns and we stick to our agreements and our deadlines. We see our customers as equal partners

### ✓ ENGINEERING

Working with a team of experienced specialists, we develop a customized solution for your company. After analyzing your application, we determine all the requirements for the labeling system and its environment. This can include adjustments to software and hardware, a search for the right consumables, and creation of print samples. Our constant goal is to ensure that you and your customers are satisfied with the result.

### ✓ SOFTWARE

Print data and layouts must be available quickly and flexibly, but with minimal adjustment effort, to all labeling systems in production. With our many years of industry expertise and technical know-how, Diagraph supports you with *connected marking & coding*. We support you on the path to your networked labeling solution.





USER TRAINING



FAST DELIVERY OF CONSUMABLES



CUSTOMER SERVICE



✓ **USER TRAINING**

Do you want to train your personnel to operate our printing systems? Do you want to gain the full benefit of the options available with our software solution? We offer tailored user training at your premises or in our headquarters, as well as online, and these allow us to focus in detail on your requirements.

In our training courses, we can cover basic functions of our devices, which is of great benefit to employees who are new to the technology. We can also concentrate on special issues that are of interest to advanced users.

Please send us your queries regarding our training offers. We will reply quickly with information on an appropriate training course for you.

✓ **FAST DELIVERY OF CONSUMABLES**

Do you urgently need ink, ribbons or other consumables? We deliver standard articles at short notice. On request, we can provide a continuous supply of consumables to ensure that your production runs with no interruptions. We will be delighted to let you know how we can help.

✓ **CUSTOMER SERVICE**

Are you planning a new installation or do you require maintenance by our competent Service Team?

Our cost-effective flat rates provide you with planning security.

Regular maintenance extends the life of your devices and lowers the risk of disruption. We maintain your devices in consultation with you – even at weekends!

If, despite everything, your system does fail, our technicians will be happy to provide assistance by telephone and also on-site. If a printing system does fail for any reason, we will be happy to send you a loan device – via express asap!





```
mod.use_z = False  
condition == "MIRROR_Y":  
mod.use_x = False  
mod.use_y = True  
mod.use_z = False  
condition == "MIRROR_Z":  
mod.use_x = False  
mod.use_y = False  
mod.use_z = True
```

at the end -add back the de

```
ob.select=1  
ob.select=1  
scene.objects.active = modifier  
selected" + str(modifier_ob)) # modifier  
ob.select = 0  
context.selected_objects[0]  
objects[one.name].select = 1
```

please select exactly two objects,

OPERATOR CLASSES

```
Operator):  
error to the selected object""
```

# INDUSTRY 4.0

We ensure automatic, error-free product labeling

**Always the right information on your product – automatically:**

The traceability requirements are constantly increasing, the quality requirements for product labeling are increasing, and production is becoming more and more complex due to high volumes and flexible production lines.

On the other hand, print data must frequently be entered manually and this sometimes leads to labeling errors and system downtimes.

**The solution:  
Connected marking & coding.**

Diagraph is your experienced partner here, supporting you on the path to your networked labeling solution. We ensure that print data and layouts are available quickly, flexibly, and with minimal adjustment effort, to all the labeling systems in your production.







ITW Headquarters in Glenview, Illinois, USA



## ITW GROUP OF COMPANIES

### Diagraph is part of ITW

Since 2001, Diagraph has been a part of the ITW Group of Companies. ITW (Illinois Tool Works Inc.) operates with decentralized business units in more than 55 countries. In 2019, approx. 45,000 employees worldwide generated sales of 14.1 billion US Dollars.

The company was founded in 1912 and the secret of its success throughout more than 100 years of operation has always been to harness the outstanding technical skills of its employees so as to offer products with high

added value to its key customers around the world. Another factor in achieving this success was global expansion through acquisitions, which enabled the company to effectively enhance the ITW product range.

You can find out more about the ITW Group at: [www.itw.com](http://www.itw.com)



## WHAT OUR CUSTOMERS SAY



"With our old printer, we kept getting misprints with missing characters or smudged imprints.

Since we installed the Diagraph printer, the imprints of the best-before date and batch number are always excellent."

*Markus Lutz, Technical Manager,  
Herbsthäuser brewery,  
Bad Mergentheim, Germany*



"We are a premium soup producer, quality is our first priority.

We've always been impressed by the quality of service at Diagraph, and the new labeling systems are exactly what we wanted."

*Viktor Schäfer, Divisional Manager for  
Labeling, Jürgen Langbein, Kaltenkirchen*



"In the past, the labeling on our pallets was often very difficult to read and we had a lot of waste.

Since we started using Diagraph printers, every pallet gets a perfect print image and we've managed to reduce our labeling costs by 50%."

*Ingo Mönke, Chairman of the Board  
PALETTEN-SERVICE Hamburg AG*



"We've been using the Allen hot foil coder in our bakery since 2001 and we've never had a problem.

When it needed repair just recently, I received a substitute loan machine within a day.

I was delighted with the fast response!"

*Armin Reichle, Reichle Bakery,  
Bietigheim*



"Our EasyFrame marking saw leads the industry in provision of layout information for wood components.

Thanks to our partner Diagraph, the marking is now better than ever."

*Coby Gifford, Co-Owner / Chief Technical  
Officer, EstiFrame Technologies, Inc., USA*



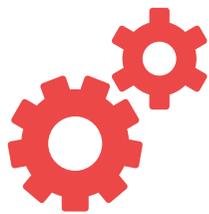
"We were impressed by the Diagraph service even at the test run stage. We were fully convinced by all aspects of the company.

Diagraph has the best combination of price, performance and quality, and it offers the best customer service."

*Axel Wabersky, Head of Maintenance,  
Mercer Zellstoff, Stendal, Germany*

# DATA & FACTS

Diagraph in numbers



DEVICES ON THE MARKET

**643,205**



PRODUCTS LABELED

**12,363,557,697  
PER YEAR**



CUSTOMER CONTACTS

**253,412  
PER YEAR**



COFFEE CONSUMPTION

**3,812 LITERS  
PER DAY**





# DIAGRAPH

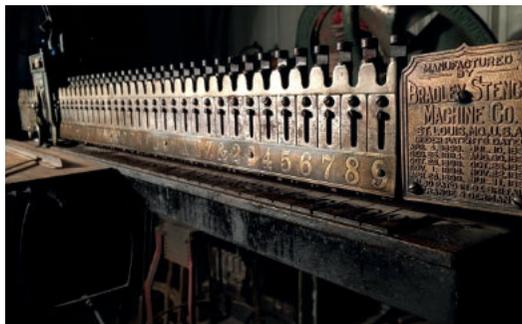
SINCE 1893

# THE STORY BEHIND DIAGRAPH

A history of innovative labeling solutions



## 1893



The story of Diagraph begins with the founding of the Bradley Stencil Machine Company by Andrew Jackson Bradley and his invention of the Bradley Stencil Cutting Machine. He comes up with the idea in order to accelerate the painstaking process of addressing all the boxes, parcels and crates that are being transported along the Mississippi river. Bradley's invention makes it much easier to attach a variety of shipping and product information to the outside of shipping containers.

## 1902

Stephen Hartog, an engineer at the Bradley Stencil Machine Company, improves the original machine, resulting in the circular stencil cutting machine – the Diagraph. Hartog leaves the Bradley company and forms the Diagraph Stencil Machine Company with local businessman, Theodore Remmers.

## 1904



The Bradley Stencil Machine receives the Gold Medal Award at the St. Louis World's Fair for its revolutionary impact on product marking.

## 1913

Theodore Remmers' son-in-law, James W. Brigham, joins the company and develops a stencil ink. The company expands its product range.

## 1915

Diagraph is the first stencil machine manufacturer to sell a complete product line: Machines, ink, paper, and brushes.

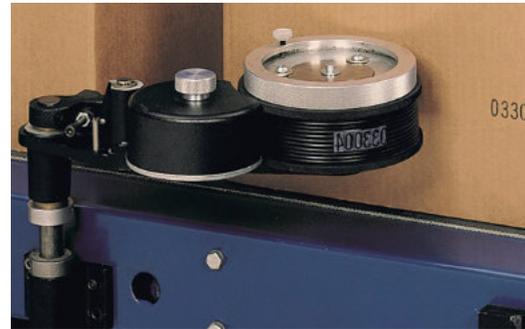
## 1937

Diagraph acquires the Bradley Stencil Machine Company and becomes Diagraph-Bradley.

## 1944

Diagraph-Bradley establishes distributorships in international markets, focusing first on Central and South America and then expanding into Asia and Europe.

## 1969



The world's first roll coder is unveiled — the DiCoder.

## 1990

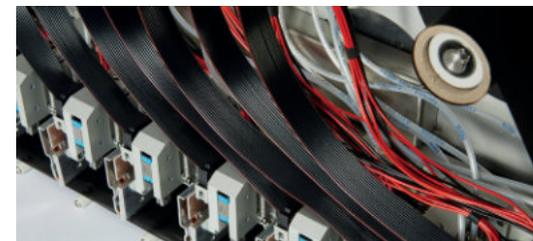


The world's first high-resolution piezoelectric print engine is unveiled – with Trident technology.

## 1996

The world's first centralized ink delivery system design for high-resolution inkjet printers is introduced.

## 1997



The world's first thermal printer with multiple printheads is a sensation.

## 2001



Diagraph joins the ITW Group of Companies.

## 2002

The world's first automated cleaning system for high-resolution inkjet technology is developed.

## 2004



Allen Coding develops the world's largest format thermal transfer printer – the Allen NGT8e.

## 2008



Diagraph presents the world's first industrial-grade thermal inkjet technology.

## 2008



Diagraph introduces the world's first fully electric labeling system.

## 2015

Diagraph launches the world's fastest piezo-electric printhead for high-resolution, large character printing.

## 2018



Introduction of the Allen XL5000 thermal transfer printer. This offers outstanding value for money and high ribbon capacity coupled with easy installation and low maintenance.

## 2021



Allen Coding GmbH, based in Würzburg, Germany – a developer and manufacturer of hot foil coders and thermal transfer print systems – changes its name to Diagraph GmbH and becomes the European headquarters of Diagraph. This European base now manages Diagraph's Middle East and Africa (EMEA) business.



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