

GEUTEBRÜCK

Optimize your processes.
With Value Imaging.



Hidden potential: Transparency in your supply chain

The logistics sector is booming – product flows are increasing, and with them, so are the demands of customers: Individual wishes, flexible capacity and low stock levels are needed while still ensuring reliable deliveries “just in time”.

The customer sets the tone. But how do you master this complexity? A key competitive factor is transparency. Uncover hidden potential by using supply chain visualization: Identify the sources of errors, control material flows and document process steps without gaps.

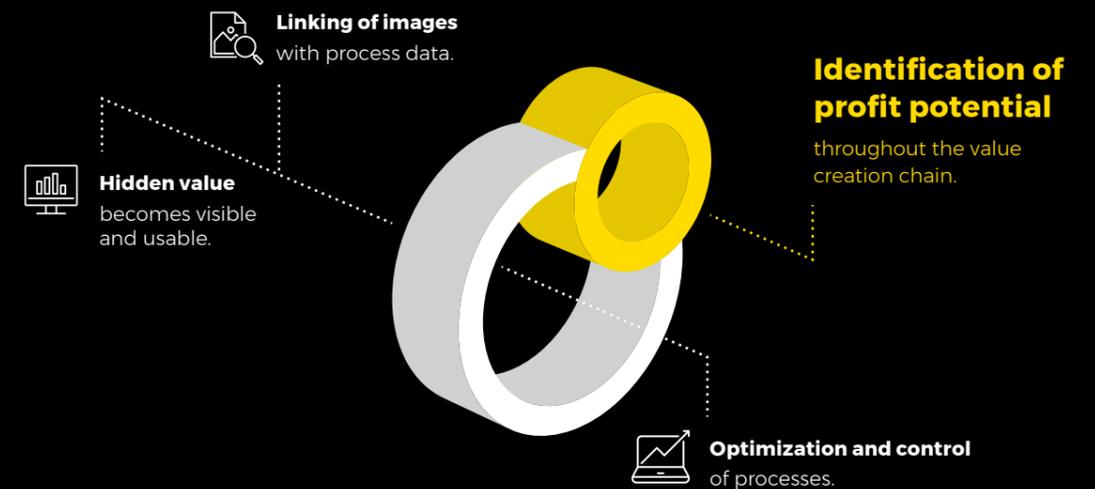
In short: Optimize your logistics processes continuously and identify profit potential across the entire value chain, saving time and money and impress your customers.

Innovative product development and successful, large-scale international projects have made us a globally recognized expert and one of the world’s market leaders for “Made in Germany” video based solutions.

We successfully utilize our nearly 50 years video security expertise in our logistics solutions.

VALUE IMAGING

maximizes your business success.



Digitization – Megatrend and challenge

Complexity and dynamics are growing exponentially in logistics. It is estimated that the amount of data will increase by a factor of one thousand in the next ten years. Because so much data is being generated, intelligent evaluation solutions can drastically increase quality throughout entire processes.

It is not the quantity of data that is decisive, but instead the efficient handling of this data. To find out whether the goods have already been damaged, you need “only” one picture and, you can find it in seconds with our solutions. This is of course, accomplished in full compliance with current data protection regulations.

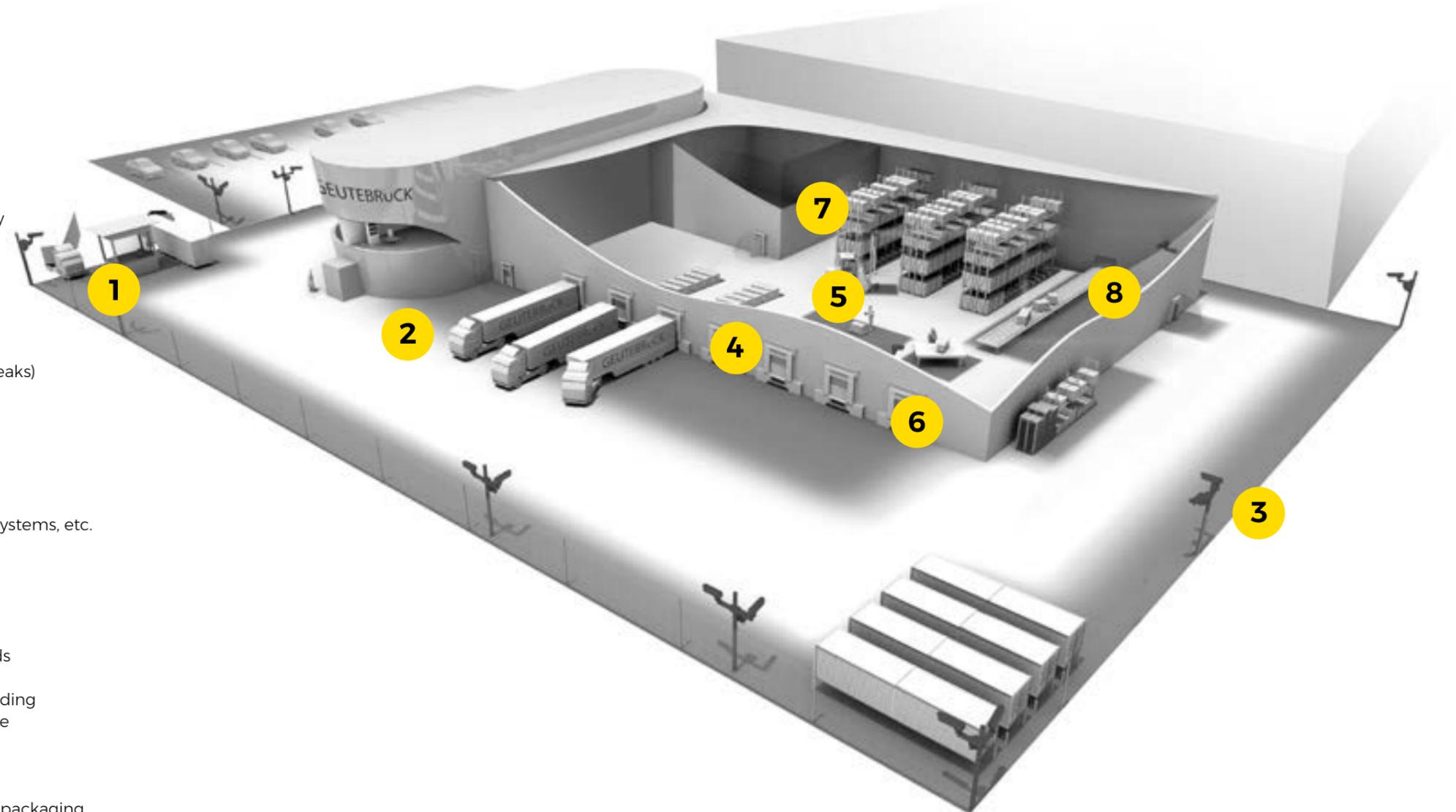
Value Imaging in your logistics

Automated yard management

- 1 Entrance and exit**
 - Optimization of waiting times
 - Controlled/Automated entrance and exit
 - Efficient management of trucks
 - Transparency regarding volume and length of stay
 - Visual evidence (of seals, for example)
- 2 Premises**
 - Control of vehicle movements
 - Overview of vehicles on the premises
 - Visual evidence of damage
 - Documentation of vehicle length of stay (truck breaks)
 - Security for critical areas
- 3 Perimeter protection**
 - Protection of employees and property
 - Security from intruders
 - Overview, even for spacious areas
 - Interfaces for access controls, intruder detection systems, etc.

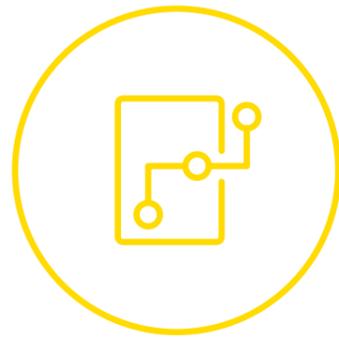
Visual documentation

- 4 Inbound**
 - Visual proof of the condition and quantity of goods
 - Incident resolution including theft and damage
 - Documentation of unloading processes and reloading
 - Detection of deviations in weight and temperature
- 5 Picking and Packing>Returns**
 - Complaint resolution
 - Visual documentation of complete and error-free packaging
 - Employee protection in case of irregularities
 - Security in case of fraud attempts
- 6 Outbound**
 - Documentation of cargo safety and transfer of liability
 - Protection in case of downstream transport damage
 - Fulfillment of regulations (such as, known consignor)
 - Condition of Goods documentation, admissible as evidence in court
 - Rapid identification/resolution of loading mistakes



Track & Trace

- 7 Warehouse**
 - Finding incorrectly stored pallets
 - Minimization of manual inventory work
 - Clarification of incorrect loading operations
- 8 Conveyor belt**
 - Automatic and visual parcel tracking
 - Clarification in case of incorrect sorting
 - Alarms in case of fallen goods
 - Clarification of conveyor belt stoppages



How it works: Automated yard management

Our system automatically recognizes license plates and can control vehicle access to entrances and exits on your premises.

You control yard processes automatically and have a complete overview of all vehicle movements on your premises. Our system records the number plates of cars and trucks at the entrance and by using the plate and trailer numbers, you can assign authorizations for the respective vehicle or vehicle groups in advance. Using individual access authorization, you can control your processes efficiently, with all vehicle data documented with precision. With an intelligent layout

of cameras on your premises, you have an overview of events as well as video evidence which could be used in court to prove damage to your property. With "Motion Search" video analysis, you can mark an area in live images or in a recording and, with a click display every movement. This makes it possible to quickly identify the responsible party. In addition, outside cameras may be used in combination with our intelligent video analysis to protect your yard from intruders.

Transparency of vehicles and processes

Automatically control entrances and exits on your premises by defining access permissions for vehicles. In addition,

you have everything traceable and visible and know at all times who is on your premises, where and for how long.





Resolution and court-admissible evidence

Information (scan, weight, time) is linked to video images, making it possible to find the crucial picture with the relevant information to clarify the cause of irregularities. You can also document relevant processes in a form that is admissible in a court of law.



How it works: Visual documentation

A picture is worth a 1,000 words. Tremendous opportunities are opened up through the combination of data from your in-house systems and the link to video images known as “Value Imaging”.

In the inbound handling of freight or goods, or the outbound picking and packing process, every scan, weighing or other action in the process is linked with camera images and documented in our database. This allows you to clearly see and prove if required, that the goods were delivered completely, handled properly and without damage. You can also document if necessary, that the opposite was the case, or find out what happened if goods are stolen. In the outbound picking and packing or handling of returns, you can document every packaging process

and have clear evidence when the goods are returned incorrectly. Outbound issues are easily resolved with video documented images that prove correct loading took place. By simply entering the shipment scan, RFID or tracking data, you can quickly find the decisive image with the relevant information. Regardless of which in-house system you use, our visual documentation solution can be easily integrated into your environment. A complex documentation search, for example within the framework of stringent regulations, can be initiated with just one click.



How it works: Track & Trace

Save time-consuming searches for goods. Enter the barcode into the system and track the route of the package.

When searching for incorrectly stored or loaded goods, video images provide crucial information. By linking in-house interfaces (i.e. scan, RFID or other tracking data) with images, you can easily trace the path of the goods. At the press of a button, you can see the entire path of the package along all the relevant interfaces, from acceptance to delivery. If a pallet or item still cannot be found using automatic package tracking,

“High Speed Motion Search” can help: Look for the last image and mark the pallet. Every movement inside the marked area is displayed by our system, making it possible to find the decisive action within seconds, with just a few clicks. By synchronizing the surrounding cameras in our system, you now can easily track the person with the pallet or item by following them on adjacent cameras.

Save time and money through fast locating operations

Track the path of goods through your site. Whether incorrectly stored pallets or goods that are picked improperly, our systems help you find the information you need, quickly and comprehensively.



Big Data – manage billions of images effectively

A massive amount of data is produced every day which helps us to understand relationships and to make decisions. Intelligence needs data.

But what use is information if we have no means for analyzing and evaluating it? Among billions of pictures, most often just one is decisive. It is exactly this picture that provides the answer. The special feature of our systems is that we save metadata and video images in two databases. This allows us to search terabytes of data material, quickly to find the relevant information. Metadata is additional information that we use

to tag the video images. The time and date are just the beginning of these tags. Our video systems are different because we link them together with in-house interfaces: Scan, RFID, temperature or the weight of the goods – the possibilities are limitless. This is how intelligence is created: It's all about the right picture at the right time! That is our philosophy.

☑ Interface expertise from Geutebrueck

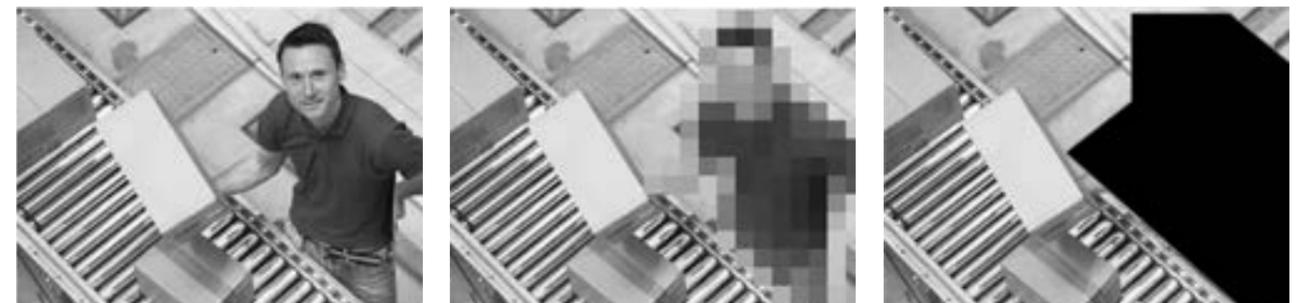
- Existing integrations to well-known scanner manufacturers and platforms
- Individual development of interfaces to integrate with your in-house systems
- Expert consulting through our SDK (Software Development Kit) team
- Support of common protocols (serial, TCP/IP, webservices)

Solutions with legally compliant data protection

Whenever you deal with Big Data, you also need to address data protection and privacy issues: Protection of employees' personal rights and data security go hand in hand.

With our systems, you can mask static areas within an image or pixelate moving objects. This makes it possible to maintain visibility on situations that matter while at the same time protecting the privacy of your employees or third-parties, such as people walking by. Should the scene become relevant later, certain areas of those images can be made visible again, but only by an authorized user! Depending on the rules you establish, access to this privacy protected video can be restricted and require two-person passwords.

For example, management together with human resources. Our systems have reliable protection mechanisms that make unauthorized access to images of employees impossible. In addition, the video data is always admissible in court, because any exported video can be encrypted and password-protected. Equally important: Failure protection is a key issue for us, therefore our reliable concepts (from RAID to failover) ensure the availability of data at all times.



Helping protect your values, for 47 years.

We are an international player when it comes to protecting values: People, property, relationships and processes.

Anyone who uses our solutions can expect more profitable operations, the highest level of security and minimal loss.

Our solutions in the areas of video security and value imaging are individual and technically sophisticated while remaining easy and intuitive to use.

As a family company, whose founder literally began tinkering in a garage some 50 years ago, we have

developed into a global company of over 250 employees, with a confident presence on the international market.

Our benchmark is "Made in Germany". Renowned customers throughout the world value our experience, enthusiasm, tradition and reliability.

Visit www.geutebrueck.com to find out more.



We are proud to have customers in over 70 countries around the world. We support them personally throughout the process, from tender preparation to implementation and beyond."

Katharina Geutebrück and Christoph Hoffmann

1970

**MADE-IN-GERMANY
Family Company
since 1970**

250

**More than 250 employees
worldwide**

70

**Over 70 countries with
enthusiastic customers**

GEUTEBRÜCK

Geutebrück GmbH

Im Nassen 7-9
53578 Windhagen
Germany

Phone +49 2645 137-0
Fax +49 2645 137-999
info@geutebrueck.com

www.geutebrueck.com

© Geutebrück GmbH