



LOG

Logistics Operational Guide

A guide to the Logistics Center



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1 Company Portrait of Gustav Klauke GmbH

Gustav Klauke GmbH is one of the leading market partners in the area of non-soldering joining technology. With about 800 employees, the company develops, produces and sells electrical joining materials, as well as tools for electrical installations, data networks, sanitary and heating installations.

The main plant is located in Remscheid; other production sites are in Bernsdorf and Dolny Kubin. Klauke has sales companies in Austria and France. Klauke products are sold in more than 60 countries around the world.

Since 1996, Gustav Klauke GmbH has been integrated into the US TEXTRON group of companies; the company strategically cooperates with Greenlee TEXTRON around the world. Klauke was acquired by Emerson Commercial & Residential Solutions in June 2019.

History:

Gustav Klauke GmbH was founded by Gustav Klauke in Remscheid in 1879. The former pliers' factory was a typical Remscheid tool industry company.



Today, Klauke is one of the leading companies in connector technology. Cable terminals, connectors, pressing and cutting tools for electrical engineering, as well as pressing machines for sanitary and heating technologies represent the typical Klauke product range.



2 Data and Facts

Klauke develops, produces and sells high-quality products for electrical, sanitary and heating technology. The products sold by Klauke under the brands of Klauke, Greenlee and Utilux, as well as its comprehensive service competence, are renowned around the world.

- Founded in 1879, Klauke has developed into a leading provider of connector technology and pressing and cutting tools. (Corporate History)
- The company headquarters are located in Remscheid. State-of-the-art production sites are found in the same town, as well as at the sites of Bernsdorf (Saxony) and Dolny Kubin (Slovakia).
- More than 70 sales partners around the world ensure customer proximity. (Sales partners)
- Klauke has dedicated sales companies in Austria, France, Great Britain, Russia, Slovakia, China, Australia and India. (Contact)
- Since joining the Greenlee Division in the Textron group of companies in 1996, Klauke has been selling punching and bending tools, cable installation technology, test, measuring as well as inspection devices for electrical installations.
- 2004 Integration of Tempo Europe Limited into the Klauke group.
- 2008 Acquisition of the Slovakian company Utilux Europe and connection to Klauke group
- The company has more than 800 employees around the world.
- Qualified employees in field service, in the sales office and service center are available to support and help you.
- ➤ The product range comprises more than 10,000 high-quality single components, ranging from cable terminals to high-quality hydraulics tools, from sheet punches to fiberglass test devices. Tools for the industrial and commercial areas are also part of the product range.
- Since 2019 Klauke is a part of the Emerson group



3 Quality Management Systems



DIN EN ISO 9001:2015

Valid since: 01. December 1995 Valid till: 15. December 2021

Certified by: DEKRA Certification B.V.



ISO 14001:2015

Valid since: 01 July 2010

Valid till: 15 December 2021

Certified by: KEMA Quality B.V.



CERTIFICATE OF THE EUROPEAN COMMUNITY AEO Certificate

Valid since: 21 July 2011

Authority: Main customs office Düsseldorf

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4 Objectives

The objective of this guide to the Logistic Center (LOG) is providing interested parties with information on our present logistics performance. Furthermore, this self-assessment is to serve as a basis for development of joint concepts / processes.

This guide to the Logistic Center (LOG) contains standard processes that warrant internal process safety while meeting the best cut set of all customer needs.

providing the right service	At the right quantity	In the right quality	In the right order	At the right time	To the right place						
customer satisfaction											



5 Packaging Materials (Standard)

Packaging materials are containers made of different materials. They are the main part of packaging and intended to cover the package contents or to keep them together so that they can be shipped, stored and sold.



Freighttainer Euro Size

Inner dimensions 1,180 x 785 x 905 mm Outer dimensions 1,195 x 795 x 915 mm

Quality 2.7 BC-fluting

Fefco 0200

Slitter at 500 / 600 / 700 / 800 mm



Freighttainer 1/2

Inner dimensions 780 x 590 x 610 mm

Outer dimensions 790 x 600 x 630 mm

Quality 2.7 BC-fluting

Fefco 0201

Slitter at 300 / 400 / 500 mm



Freighttainer 1/4

Inner dimensions 580 x 385 x 410 mm
Outer dimensions 590 x 390 x 435 mm
Quality 2.5 BC-fluting

Fefco 0201

Slitter at 100 / 200 mm from above





Inner dimensions Outer dimensions Quality

Information

Slip Lid

1,200 x 800 x120 mm 1,215 x815 x145 mm 2.6 BC-fluting



Plastic Pallet, Euro Size

Dimensions 1,200 x 800 x 140 mm Dyn. load 1,000 kg Static load 2,400 kg

Broken deck without edge



Plastic Pallet 1/2 **Dimensions** Dyn. load

Static load 2,500 kg Information

Broken deck without edge

800 x 600 x 130 mm

1,000 kg



Plastic Pallet 1/4

Dimensions 600 x 400 x 140 mm

Dyn. load 150 kg Static load 250 kg

Broken deck, 4 feet

Information





DIN-Standard Euro Pallet Wood

Production according to quality standard UIC-435-2

Dimensions 1200x800x144 mm

Weight 25 Kg Carrying capacity 1.5t



Shipping Box KT12

W.-telescopic packaging

Dimensions 471x382x180 mm

Quality 2.30 BC a. KL

Fefco 0200, Bottom and lid



Shipping box KT3

W.-telescopic packaging

Dimensions 269x166x162 mm

Quality 1.30 B a. KL

Fefco 0200, Bottom and lid





Air Bubble Mailers 320x455mm + flap



Parcel Strap

Dimensions 12.0x0.55 mm

Printed



Forwarder PET Strap

Dimensions 12.0x0.62 mm

Maximum elongation

approx.12%

Break load 3,000N



CX Film AIRplus

Dimensions 160x400mm

Quality 25my Static load 150Kg



6 Packaging

Packaging is the entirety of all packaging aids and packaging materials. It is the specifically applied, removable enclosure of a product.

6.1 Selection of Packaging

Packaging generally must be selected to meet the protection and transport function of the goods, to warrant simple handling and quality retention of the goods.

- Protective function: The goods must be protected from damage, contamination, theft or environmental influences that may impair goods quality negatively. This is guaranteed by suitable packaging.
- Transport function: The goods must be packed so that rationalized goods movement and storage is possible manually or by stacker truck or crane. Accordingly, manual or stacker truck goods movement must not impair the hollow between the pallet feet by packaging aids. It also has to be ensured that the goods cannot slip or be lost during transport.
- In addition to logistics and quality assurance aspects of the goods, packaging also has to be selected according to economy and ecological aspects.

6.2 Requirements to Packaging

6.2.1 General Requirements

For the described functions of packaging to be warranted, the following requirements to packaging must be met:

- Use of environmentally compatible, recyclable materials for all packaging types
- The packaging must protect the package contents from outer influences such as damage, theft and weather.
- The packaging must protect the package contents from corrosion
- The package contents must be packed sorted by type or protected from mixing during transport

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- The properties of the package contents must be indicated
- The package contents must be delivered in a suitable packaging
- The packaging is suitable for easy handling and resists repeated handling
- The packaging should be stackable
- The packaging is adjusted to the respective shipping method



7 Package

A package is the entirety of all packaging materials and packaging aids combined in one unit.



> Finished forwarder shipment



> Finished parcel



8 Marking

8.1 DHL (Parcels)



- 1. Upper customer no., 54 (shipping type)
- 2. 01 (participant number)
- 3. Customer no. + continuous parcel number
- 4. EAN 128 routing code for package sorting
- 5. EAN 128 Shipment No. item 2.)

8.2 Forwarder (Parcels/Forwarders)



- 6. Interleaved 2/5 95er internal LFS package number
- 7. EAN 128 internal LFS shipping unit number
- The labels include our delivery note number as reference. If the delivery note or the parcel content list is lost, the package can still be precisely assigned.



8.3 UPS Standard (Parcels)



- 1. Datamatrix Code UPS shipment ID
- Code 128 Nearby hub destination (will be requested)
- Code 128 Tracking Number 1Z (dispatcher's customer number)(service code)(serial number)(test figure)
- 4. Interleaved 2/5 95er internal LFS package number
- The labels include our delivery note number as reference. If the delivery note or the parcel content list is lost, the package can still be precisely assigned.

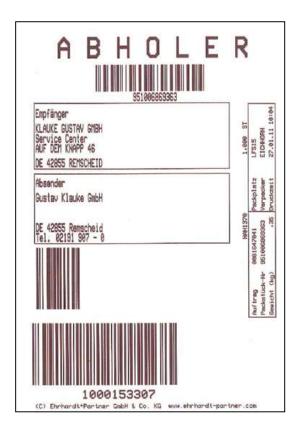
8.4 UPS EXPRESS (Parcels)



- 1. Datamatrix Code UPS shipment ID
- Code 128 Nearby hub destination (will be requested)
- Code 128 Tracking Number 1Z(dispatcher's customer number)(service code)(serial number)(test figure)
- 4. Interleaved 2/5 95er internal LFS package number
- The labels include our delivery note number as reference. If the delivery note or the parcel content list is lost, the package can still be precisely assigned.



8.5 Collector



- 6. Interleaved 2/5 95er internal LFS package number
- 7. EAN 128 internal LFS shipping unit number
- 8. The labels include our delivery note number as reference. If the delivery note or the parcel content list is lost, the package can still be precisely assigned



8.6 Goods Tag VDA 4902



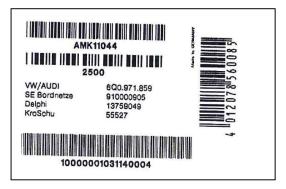
- Goods recipient
- Delivery note number
- Customer's part no
- Vendor number
- Package number
- Unloading point storage site usage code
- Vendor address
- Net weight
- Gross weight
- Number of packages
- Delivery service description
- Vendor's part no.
- Date
- Revision status construction
- Batch number
- Position based



8.7 Standard Product Label



8.8 Standard Automotive Label



8.9 Lithium Ion

Lithium Jonen Battery UN3480:



Lithium <u>Ionen</u> Battery in or by tools: UN3481:



Lithium Metall Battery in or by tools: UN3091:



- Article number
- Country of origin
- Number of pieces
- Article description
- Dimensions
- EAN13 / UPC
 - Article number
 - Country of origin
 - Number of pieces
 - EAN13 / UPC

"Processing label for lithium ion batteries and tools that are shipped with lithium ion batteries. According to the current provisions in the IATA DGR and ADR, our rechargeable batteries are classified as "small" batteries and therefore may be subject to simplified treatment for transport. E.g. a shipper's declaration and the hazard sign for class 9 are dispensed.

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8.10 Delivery Note Pocket



Manual UPS parcels

8.11 Notes on and in the Parcel



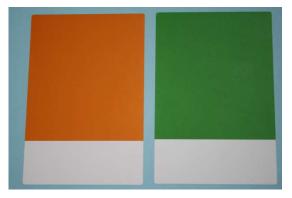


Parcel marking

8.12 Parcel Marking



Parcel marking



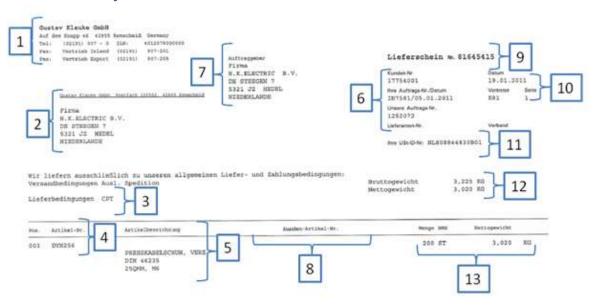


9 Accompanying Documents

In or on each parcel and pallet, there is a parcel content list; the delivery note is only on the last parcel or pallet of the respective delivery.

9.1 SAP Delivery Note

Forwarder



- 1. Klauke company address with contact information
- 2. Goods recipient with address
- 3. Delivery conditions / additional delivery notes if stored with customer
- 4. Delivery item and article number
- 5. Article description
- 6. Customer number / customer order number with order date / Klauke order number

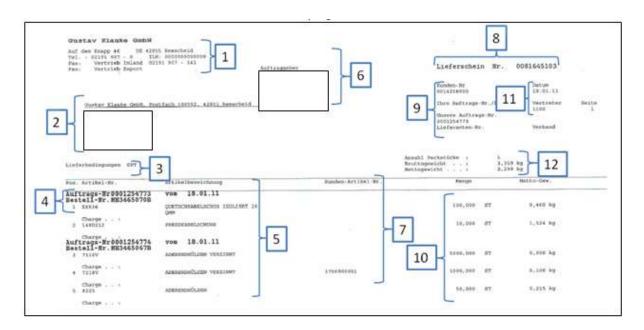
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- 7. Client with address
- 8. Customer material number if stored
- 9. Delivery note number
- 10. Issue date and substitute number
- 11. VAT ID
- 12. Weight indications
- 13. Number of pieces with weight indication



9.2 LFS Delivery Note

Parcels/Forwarders

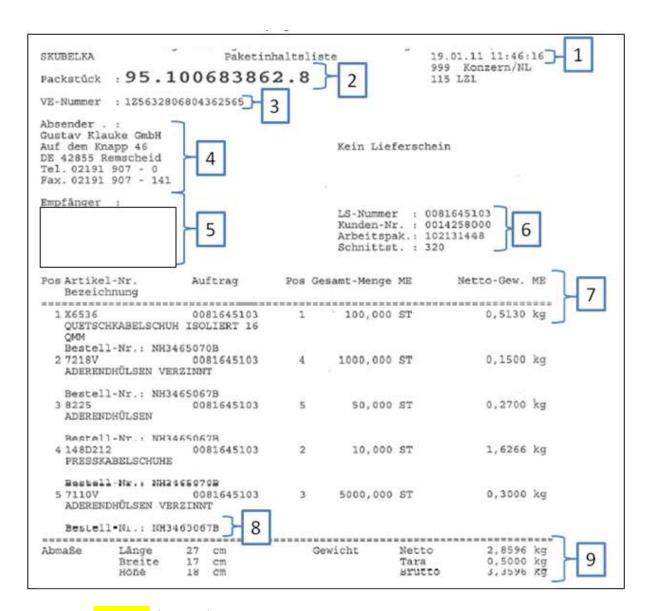


- 1. Klauke company address with contact information
- 2. Goods recipient with address
- 3. Delivery conditions / additional delivery notes if stored with customer
- 4. Klauke order number with issue date / order number customer
- 5. Article description
- 6. Client with address
- 7. Customer material number if stored
- 8. Delivery note number
- 9. Customer number / Klauke order number
- 10. Number of pieces with weight indication
- 11. Issue date and substitute number
- 12. Weight and package information



9.3 LFS Packing List

Parcels/Forwarders



- 1. Creation date and time
- 2. Package number LFS
- Tracking number LFS
- 4. Klauke company address with contact information
- 5. Goods recipient with address
- 6. Delivery note number / customer number / work package number LFS
- 7. Article number / description/order/item/quantity/ weight
- 8. Customer order number
- 9. Parcel dimensions and weight



10 Loading Times

Monday – Thursday 07:00- 16:45 hours Friday 07:00 hours – 14:00 hours

11 Collection

For collection by "third-party forwarders", a collection reference is required. This reference is indicated to the forwarders via our forwarding orders.

The collection reference is our delivery note number at the same time.

12 Miscellaneous

At this time, UPS shipments within Germany and to Austria, as well as DHL Europack shipments, are automatically processed via the storage software. These parcel shipments are collected daily.

In addition to UPS and DHL Europack, shipments are regularly processed via TNT, DHL Express and FedEx as an alternative KEP service provider.

Shipments for TNT and DHL Express require preliminary notice 90 minutes before collection, i.e. they are not automatically collected daily.

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13 Contacts

If you have any questions, please contact:

Gustav Klauke GmbH Tenter Weg 1-3 42897 Remscheid http://www.klauke.com

13.1 Leiter Logistik / Manager Distribution Center

Thomas Kiepert

Phone: +49 (0)2191 907278 Fax: +49 (0)2191204

Mobile: +49 (0)15114639532

Email: thomas.kiepert@emerson.com

13.2 Versandbüro / Shipping Dept.

Christian Diehl

Phone: +49 (0) 2191 907376 Fax: +49 (0) 2191 907204

Email: christian.diehl@emerson.com

13.3 SAP / LFS Systemsupport

Klaudius Daniel SAP / LFS Key User - LO

Phone +49 (0) 2191 907143 Fax +49 (0) 2191 907204

Email: klaudius.daniel@emerson.com

13.4 Material Planning

Gregor Orlowski

Phone +49 (0) 2191 9071557 Fax +49 (0) 2191 907204

E-Mail: gregor.orlowski@emerson.com

13.5 Logistics Master

Frank Rossi Admission to and removal from warehouse / product packaging

Phone +49 (0) 2191 907313 Fax +49 (0) 2191 907204

Email: frank.rossi@emerson.com



13.6 Aviation Security

Frank Rossi

Phone +49 (0) 2191 907313 Fax +49 (0) 2191 907204

E-Mail: frank.rossi@emerson.com

Christian Diehl

Phone: +49 (0) 2191 907376 Fax: +49 (0) 2191 907204

E-Mail: christian.diehl@emerson.com

Sinan Kazanci

E-Mail: sinan.kazanci@emerson.com

14 Logistics Center General

14.1 Area

- > 600 m² foyer
- > 4500 m² storage hall
- > 500 m² admin. area

14.2 Storage Sites:

- > 16,557 on 2 levels
- > 160 fast-movers

14.3 Pallet Places:

> 900

14.4 Conveyor Technology

- > 465 m
- > 3 incoming goods train stations
- > 5 outgoing goods train stations

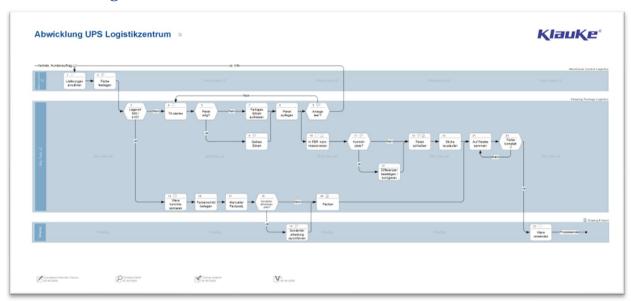
14.5 Storage Area Packaging / Kitting

> 500m²



15 Processes

15.1 Processing UPS



15.2 Picking and Dispatch Logistics Center

