



Solutions and systems for lifting and conveying technology and intralogistics

-  Cable
-  Connectivity
-  Cabinet
-  Control

Solutions and systems for

Lifting and Conveying Technology and Intralogistics

Optimize your systems with durable and efficient components from LÜTZE — in the control cabinet and beyond!

In lifting, conveying, and intralogistics technology, components must meet strict requirements: a compact design, low operating costs, energy efficiency, high operational safety, minimal downtime, and fast serial processes.

In addition, monitoring, easy installation, modular systems, a high degree of automation, and a low CO₂ footprint are essential.



More efficiency, productivity, digitalization, and sustainability with future-proof solutions from LÜTZE.

Digitalization

- **Process monitoring:**

AirSTREAM Control Cabinet Wiring, Single Pair Ethernet, LCOS, and LUNA Board

- **Monitoring:**

AirSTREAM, LOCC-Box, PANELCON, Switches, M8 and M12 Actuator/Sensor Technology, Interface Technology, Single Pair Ethernet

- **Secure connection between system and drive technology:**

Data, Control, and Servo Cables and Assemblies

- **High degree of automation:**

AirSTREAM, LOCC-Box, PANELCON, Switches, M8 and M12 Actuator/Sensor Technology, and Interface Technology

Productivity

- **Increased operational safety:**

AirSTREAM, *AirBLOWER*, LOCC-Box, PANELCON, Switches, M8 and M12 Actuator/Sensor Technology, Interface Technology, Single Pair Ethernet

- **Ease of installation:**

LOCC-Box, PANELCON, Switches, Cable Glands and Cable Entries, Valve Connectors

- **Fast processes through plug & play:**

M8 and M12 Actuator/Sensor Technology, and Interface Technology

- **Standardization:**

AirSTREAM, Valve Connectors, LCOS and LUNA Board

LÜTZE Inside and Outside Cabinet

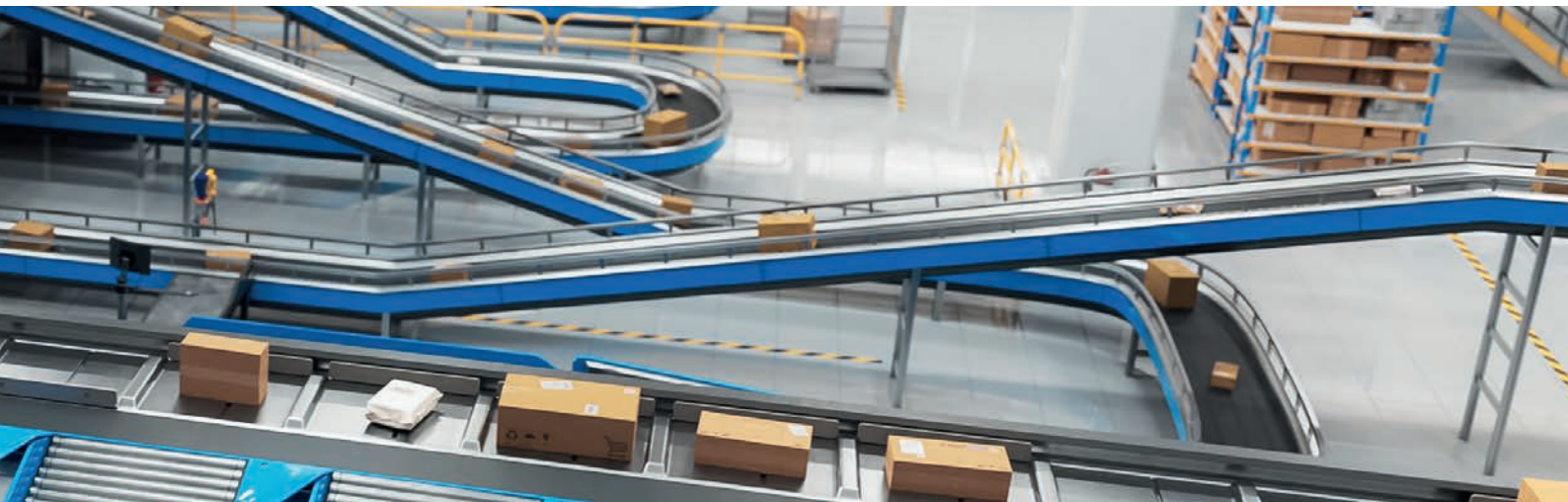
LÜTZE offers a perfectly coordinated and highly efficient portfolio for applications inside and outside the cabinet. Our four product areas are divided into solutions for use within and outside the control cabinet – depending on specific requirements.

For applications **outside the cabinet**, the Cable and Connectivity areas provide exceptionally reliable, robust, and highly flexible cables – optionally pre-assembled – as well as solutions for suppression technology, connectors, and network technology.

Inside the cabinet, the Cabinet division impresses with the

space-saving, thermally optimized, and energy-efficient **AirSTREAM®** wiring system.

The portfolio is complemented by the Control division, offering universal interface technology, power supply solutions, intelligent current monitoring, and industrial Ethernet infrastructure.



Sustainability

- **Reduction of energy consumption and costs:**
AirSTREAM, LCIS Solid-State Relays
- **Improvement of the CO₂ footprint:**
AirSTREAM, *AirBLOWER*,

Efficiency

- **Energy cost savings:**
AirSTREAM, *AirBLOWER*, Valve Connectors, Power Supply
- **Space savings:**
AirSTREAM, Power Supply, LOCC-Box, PANELCON, Switches, LCIS Solid-State Relays
- **Reduction of downtime:**
AirBLOWER, LCOS, LUNA-Board

Process Overview – Intralogistics

Solutions and systems for lifting and conveying technology and intralogistics



1. Conveyor Systems



2. Overhead Conveyor Systems



3. Automatic Racking Systems



3. Cranes and Hoists



4. Automated Storage Systems



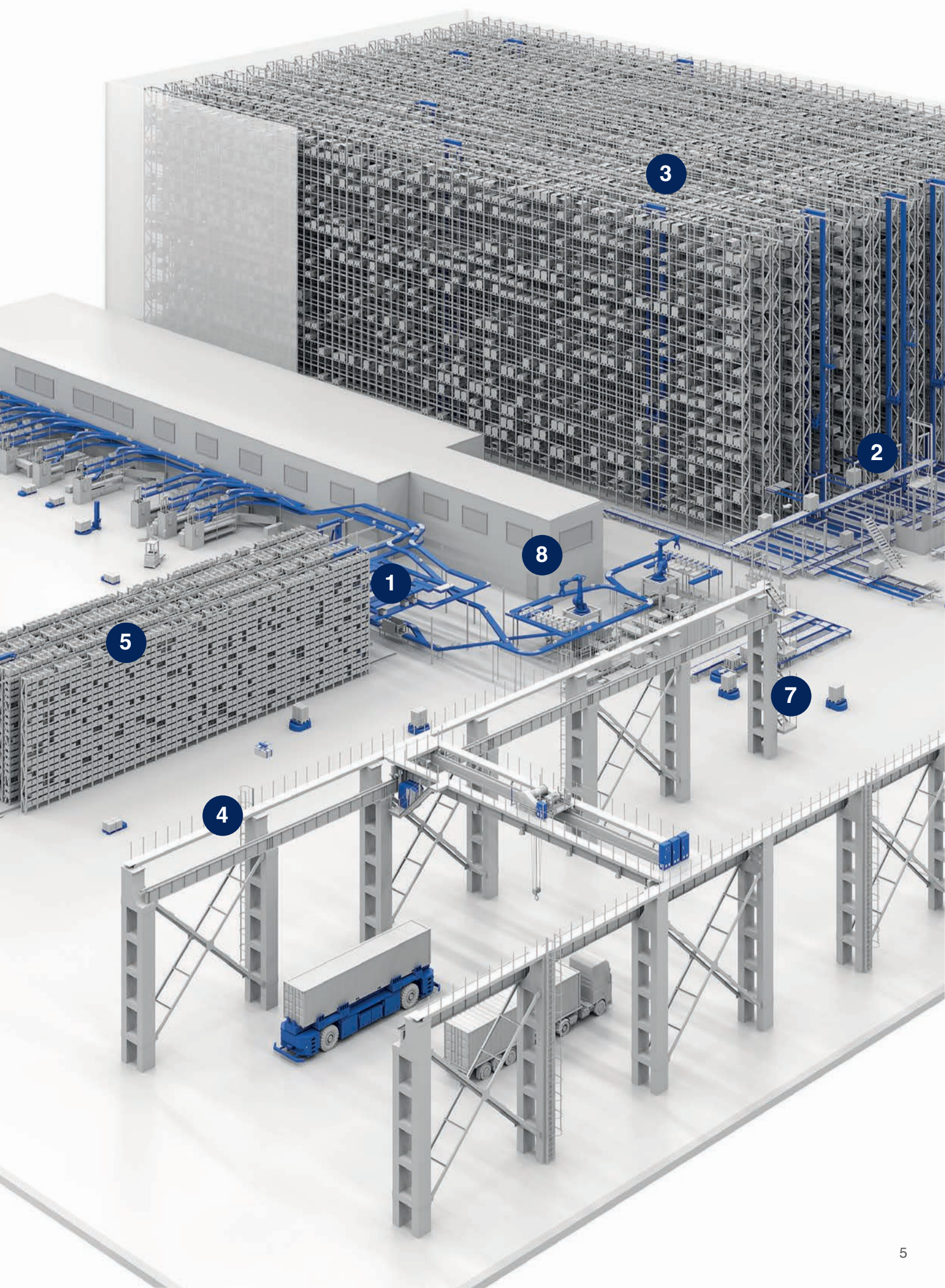
5. Sorting Systems



6. Automated Guided Vehicles (AGVs)



7. Palletizers and Packaging Machines



Efficiency in Automation

LÜTZE's efficient product portfolio ranges from highly flexible control cables and customized cable assemblies to the energy-efficient AirSTREAM wiring system for control cabinets, and extends to intelligent Industry 4.0 solutions in the areas of interface technology, power supply, and Ethernet infrastructure.

Ethernet Infrastructure

Switches, PoE-Switches, Ethernet Cables,
Bus and Network Cables

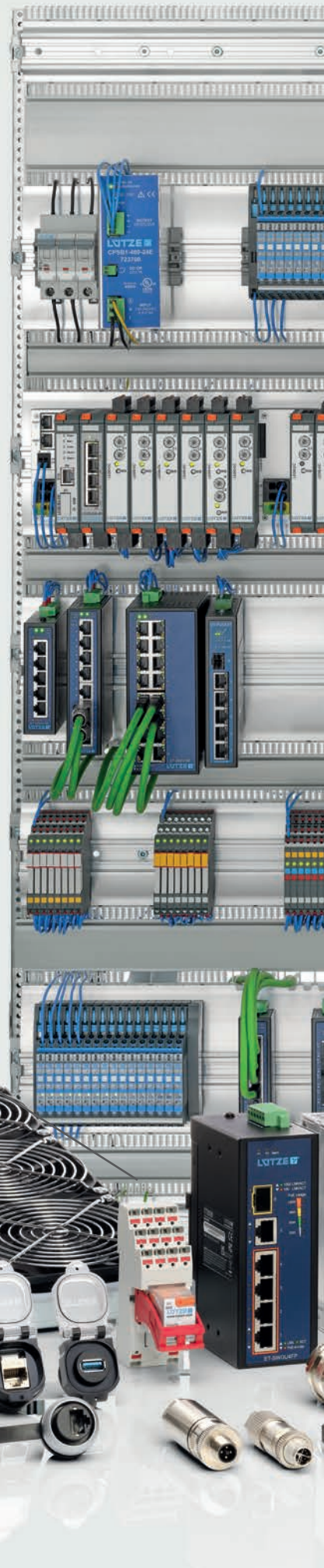
Relays and Solid-State Relays

AirBLOWER and
AirBLOWER Compact

Cable Entries / USB-Interface Technology
Bus Coupler, Gateways, Panelcon

Suppression Technology and Valve Connectors

M8 and M12 Actuator/Sensor Technology





AirSTREAM and
AirSTREAM Compact

Power Supplies

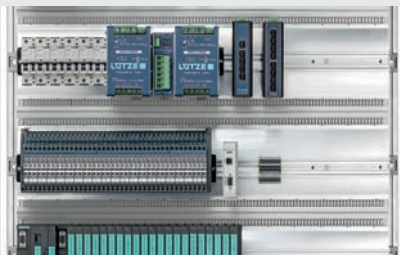
Selective Load Monitoring
LOCC-Box, LOCC-Box M, LUNA Board

Data, Control, and Servo Cables
and **Assemblies**

Cable Glands

Cable Entries

Solutions for Conveyor systems



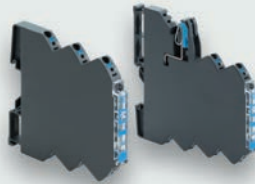
AirSTREAM &

AirSTREAM Compact

- Space savings of up to 30%
- Reduction of control cabinet size
- Shorter production times
- Standardization
- High mechanical durability
- Homogeneous control cabinet climate



Further information
about the product



Selective Load Monitoring

LOCC-Box / LOCC-Box Net:

- Space-saving design, also available as the compact LOCC-Box-M in miniature format
- Reliable tripping behavior up to 120 m LUNA Board:
- Space-saving, easy to install, with reliable tripping behavior



Further information
about the product



Power Supplies

- Space-saving compact power supplies
- Very wide AC/DC input voltage range and output voltages of 12 V / 24 V / 48 V / 72 V
- Energy cost reduction



Further information
about the product



AirBLOWER &

AirBLOWER Compact

- Reduction of downtime through prevention of hot spots
- Up to 25% energy savings by reducing active cooling demand
- Improvement of the CO₂ footprint
- Homogeneous control cabinet climate
- Reduction of filter mats



Further information
about the product



Ethernet Infrastructure

Switches / POE Switches:

- High operational reliability
- Easy installation
- Process monitoring / monitoring

Ethernet cables: connection of Ethernet technology / monitoring, EtherCAT, PROFINET, Ethernet, CAN bus, and other bus systems



Further information
about the product



Relays and Solid-State Relays

- Support energy reduction and space savings



Further information
about the product



Cable Entries & USB-Interface Technology

BUS Coupler & Gateways:

- High degree of automation
- Process monitoring / monitoring
- High operational reliability

Panelcon® Keystone IP69K:

- Modular, user friendly



Suppression Technology & Valve Connectors

Suppression technology:

- For operational safety

Valve connectors:

- High protection rating
- Energy reduction with Energy Saver



M8 & M12 Actuator/Sensor Technology

- High degree of automation



Further information about the product



Further information about the product



Further information about the product



Cable Glands / Cable Entries

Cable entries:

- High protection rating and mechanical durability, easy to install

Cable glands:

- High protection rating, easy handling



Cables & Cable Assemblies

Servo cables and assemblies:

- According to Siemens®, Allen Bradley®, Bosch®, and soon SEW standards

Data and control cables:

- For flexible and highly flexible applications and high mechanical durability



heavy I mate®

Heavy-duty rectangular connectors:

- Robust design, high protection level
- High number of contacts, various signal types
- Excellent EMC protection, suitable for outdoor use
- Very reliable locking system



Further information about the product



Further information about the product

Frankfurt Airport - Ensuring your luggage arrives safely



At Frankfurt Airport, a new terminal is currently under construction, featuring one of the world's largest baggage handling systems. This system transports around 50,000 pieces of luggage daily over 81 kilometers of conveyor routes at a speed of 18 km/h.

To ensure smooth operation, precise drives are required that are continuously monitored and maintained. The airport operator, Fraport, relies on an advanced current monitoring solution: the LÜTZE LOCC-Box-M.

This compact unit protects against

short circuits and overloads while providing selective shutdown — meaning only the affected circuits are stopped, allowing the rest of the system to continue operating.

The LOCC-Box-M offers 40 adjustable parameters and enables intelligent monitoring of the power supply. With an installation depth of just 86 mm and a height of 92 mm, it fits into nearly all control cabinets of the baggage handling system. Over a thousand of these units are used in the new Terminal 3 facility. They ensure that the baggage handling system continues to operate reliably even in the event of faults, minimizing

downtime. The LOCC-Box-M is therefore among the most compact and reliable load monitoring solutions on the market.

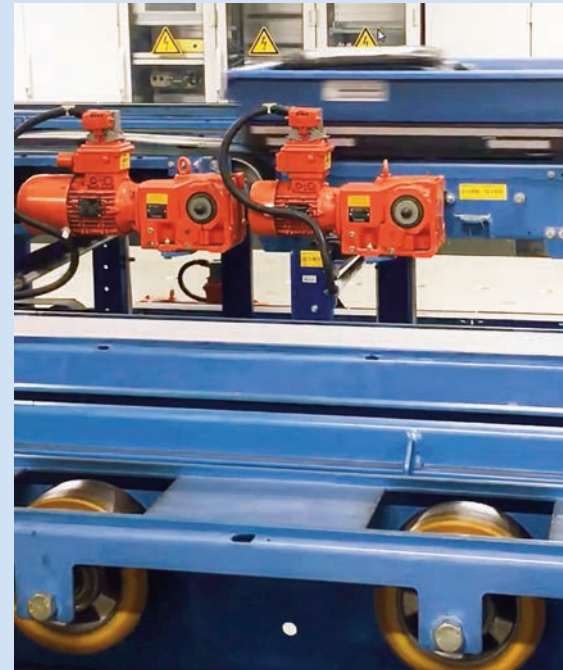
This advanced technology ensures optimal safety and efficiency in the operation of the baggage handling system and helps prevent delays in baggage processing.

Read the full
article here



Keyfacts

- **Customer:** Fraport AG
- **Location:** Frankfurt / Germany
- **Industry:** Lifting and conveying technology / intralogistics
- **Machine/Project:** Baggage handling system
- **LÜTZE Solutions:** LOCC-BOX-M, Wiring System AirSTREAM Compact, LÜTZE SUPERFLEX® motor cables

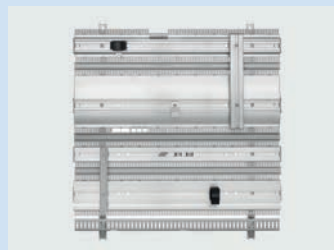


Products used for this application

Inside Cabinet:



LOCC-BOX-M Mini
Electronic load monitoring
Part No.: 716480



AirSTREAM Compact
Wiring system
Part No.: 360473F0000

Outside Cabinet:



LÜTZE SUPERFLEX®
PUR motor cables
Part No.: 111296

Possible additional products for this application

Outside Cabinet:



Tuchel
ecoImate® m
Sensors and auxiliary drives



Tuchel
heavyImate® C146-Q8
Rugged multipole connectors

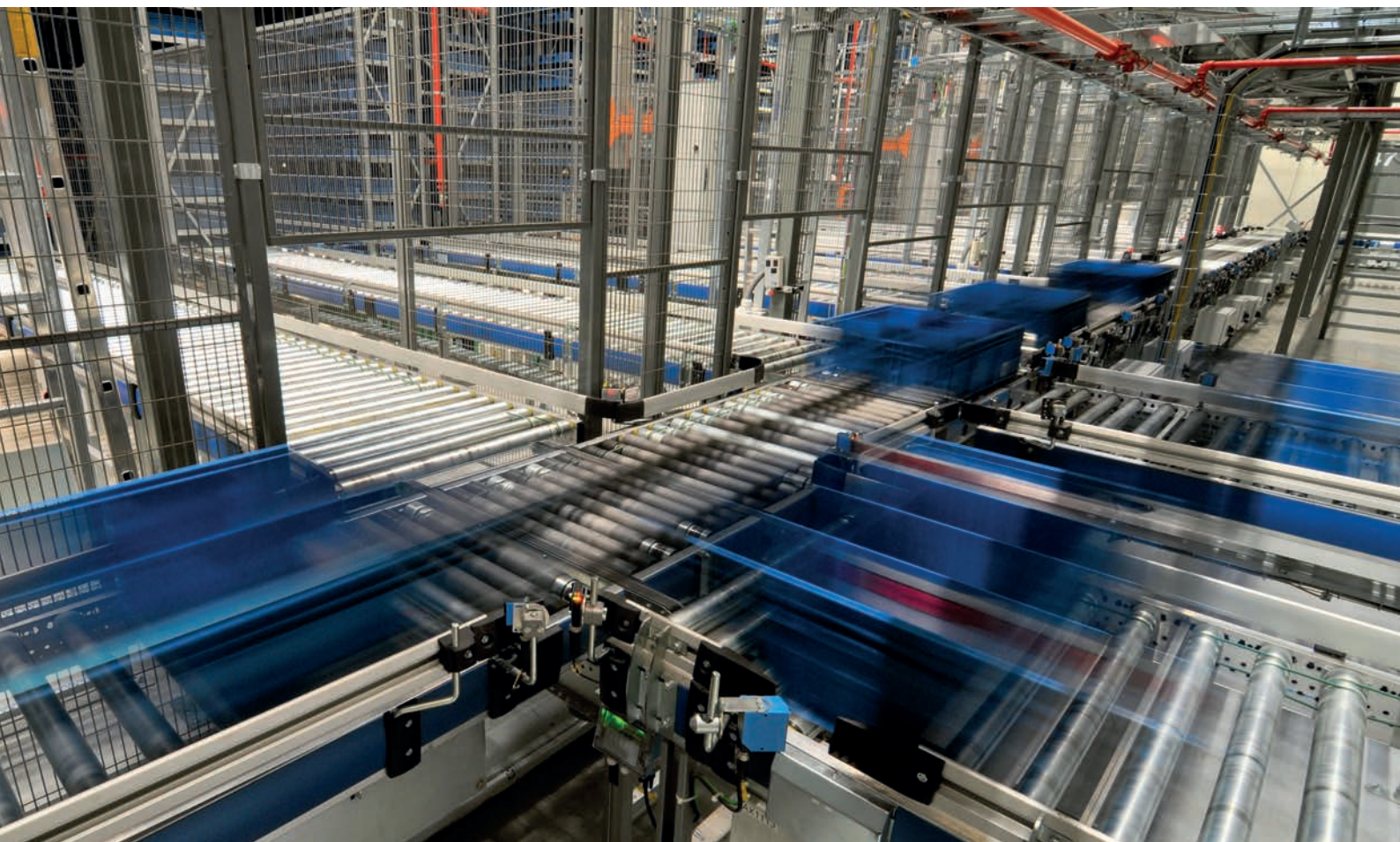


CONEC
Sensor Actor Line, overmolded
circular connectors M8/M12



CONEC
Hybrid connectors B23
overmolded, pluggable, with
mounting flanges

Modern Conveyor Systems for steadily growing Online Business



Modern conveyor systems with DC motor-driven rollers require protective circuits positioned as close to the rollers as possible. A decentralized architecture with local switch boxes beneath the conveyors replaces outdated central control systems with long cable runs. These compact units must safely provide high currents while addressing space and heat management challenges.

LÜTZE offers powerful 40 A, 24 V DC power supplies with a width of just 100 mm and an efficiency of over 95.2%, reducing power loss and enabling more rollers per switch box. In

addition, integrated Power Boost functions prevent supply failures during inrush current peaks. This allows for more flexible, efficient, and future-proof system design.

Conventional miniature circuit breakers (MCBs) reach their limits when used with DC motors, as they often react too slowly. The LÜTZE LOCC-Box provides precise electronic protection with adjustable tripping characteristics, current ranges starting from 1 A, and a compact design. It also supports remote monitoring, status output, and integration into modern Industry 4.0 networks.

By combining space-saving power supplies with intelligent electronic protection, not only are safety risks minimized, but more conveyor rollers can be operated efficiently and reliably. The system increases operational safety, improves system availability, and enables a significant reduction in maintenance effort, downtime, and energy losses — a genuine value-adding solution for modern, automated logistics centers.

Read the full
article here



Keyfacts

- **Location:** Great Britain
- **Industry:** Lifting and conveying Technology / Intralogistics
- **Machine/Project:** Conveyor Systems for Online Business
- **LÜTZE Solutions:** LOCC-Box, Power Supplies



Products used for this application

Inside Cabinet:



LÜTZE Compact
Power supply
Part No.: 722825



LOCC-Box
Electronic load monitoring
Part No.: 716416.001.1

Possible additional products for this application

Outside Cabinet:



Tüchel
motion Igrade™ M23 Elite
Series



Tüchel
IP&S Easy & Safe 2P+E
CEE-Plug according
IEC 60309-1, -2



LTW
Circular connector. Mpronto-12 plug &
socket. The first M12 push-pull
connector — backward compatible



CONEC
IO-System
Active distribution boxes

LÜTZE Connectors and Control Cables for Conveyor Belts



WCS Solutions, a leading provider of warehouse management software and supply chain systems in the UK, supports its customers with practical solutions to improve warehouse productivity. With over 100 years of industry experience, the company develops integrated software systems and customized packages for a wide range of applications.

As part of a time-critical project, ten sites across the United Kingdom were to be equipped with mobile, modular conveyor systems within just 17 weeks. Each system consisted of 5-meter-long segments and required an

efficient connectivity solution. The goal was to significantly reduce on-site installation time to meet the demanding project schedule.

The challenge: The solution needed to handle both AC power signals and DC control signals within a single system. In collaboration with LÜTZE UK, WCS developed a robust plug-and-play solution using industrial connectors and LÜTZE SILFLEX® control cables. LÜTZE delivered the complete solution in just five weeks — fast enough to produce and stock all conveyor systems in one batch. Once delivered, the modules could be quickly

connected on-site, reducing installation time as planned.

Additionally, the project incorporated LÜTZE power supplies and the LOCC-Box electronic current monitoring system, ensuring reliable performance and optimized power management across all installations.

Read the full article here



Keyfacts

- **Customer:** WCS Solutions
- **Location:** Great Britain
- **Industry:** Lifting and conveying technology / intralogistics
- **Machine/Project:** Conveyor belts
- **LÜTZE Solutions:** various LÜTZE connectors, LÜTZE SILFLEX® control cables



Products used for this application

Outside Cabinet:



LÜTZE SILFLEX®
Control cables
Part No.: A6022004

Inside Cabinet:



LÜTZE Industrial connectors

Possible additional products for this application

Outside Cabinet:



Tüchel
motion Igrade™ M23 Elite
Series



Tüchel
signal I mate® M16-A / C091
Distance sensors



Tüchel
heavy I mate® C146-Q8
Rugged multipole connectors



CONEC
Sensor Actor Line
Power connectors M12

Solutions for Overhead Conveyor Systems



AirSTREAM &

AirSTREAM Compact

- Space savings of up to 30%
- Reduction of control cabinet size
- Shorter production times
- Standardization
- High mechanical durability
- Homogeneous control cabinet climate



Further information
about the product



Selective Load Monitoring

LOCC-Box / LOCC-Box Net:

- Space-saving design, also available as the compact LOCC-Box-M in miniature format
 - Reliable tripping behavior up to 120 m
- LUNA Board:**
- Space-saving, easy to install, with reliable tripping behavior



Further information
about the product



Power Supplies

- Space-saving compact power supplies
- Very wide AC/DC input voltage range and output voltages of 12 V / 24 V / 48 V / 72 V
- Energy cost reduction



Further information
about the product



AirBLOWER &

AirBLOWER Compact

- Reduction of downtime through prevention of hot spots
- Up to 25% energy savings by reducing active cooling demand
- Improvement of the CO₂ footprint
- Homogeneous control cabinet climate
- Reduction of filter mats



Further information
about the product



Ethernet Infrastructure

Switches / POE Switches:

- High operational reliability
- Easy installation
- Process monitoring / monitoring

Ethernet cables: connection of Ethernet technology / monitoring, EtherCAT, PROFINET, Ethernet, CAN bus, and other bus systems



Further information
about the product



Relays and Solid-State Relays

- Support energy reduction and space savings



Further information
about the product



Cable Entries & USB-Interface Technology

BUS Coupler & Gateways:

- High degree of automation
- Process monitoring / monitoring
- High operational reliability

Panelcon® Keystone IP69K:

- Modular, user friendly



Further information about the product



Suppression Technology & Valve Connectors

Suppression technology:

- For operational safety

Valve connectors:

- High protection rating
- Energy reduction with Energy Saver



Further information about the product



M8 & M12 Actuator/Sensor Technology

- High degree of automation



Further information about the product



Cable Glands / Cable Entries

Cable entries:

- High protection rating and mechanical durability, easy to install

Cable glands:

- High protection rating, easy handling



Further information about the product



Cables & Cable Assemblies

Servo cables and assemblies:

- According to Siemens®, Allen Bradley®, Bosch®, and soon SEW standards

Data and control cables:

- For flexible and highly flexible applications and high mechanical durability



Further information about the product



ecoImate® RM (Rugged Metal Shielded Connectors)

- Circular connectors MIL-DTL-26482
- For demanding motor and robotics applications
- Solution for outdoor instrumentation
- Wide range of sizes and layouts with up to 48 pins

Highspeed with LÜTZE SUPERFLEX® Cables



Tradition Meets Technology: Balz Relies on LÜTZE SUPERFLEX® Cables

Since its founding in 1834, the long-established family-owned company Balz has been processing natural products. Initially focused on leather processing, the company later expanded into wood products as well as machinery and equipment for professional wood processing. Today — in its fifth generation — Balz manufactures handling systems for the international wood industry on a production area of 20,000 m².

The proven machines are successfully

used across Europe and overseas, particularly for stacking, packaging, cutting, and sorting of sawn timber and other wood types.

At the heart of one of these systems is a universal robot mounted on a 26-meter-long steel bridge. Suction beams on height-adjustable steel profiles enable safe, precise handling and flexible automation. The Balz crane impresses with smooth acceleration and travel speeds of 120 m/min (longitudinal and transverse) and 30 m/min for lifting — with accelerations of up to 1.5 m/s².

These highly dynamic movements place extreme demands on the cables and wires used, which must also withstand harsh conditions such as dust and significant temperature fluctuations. For this reason, Balz chose the durable and motion-optimized LÜTZE SUPERFLEX® cables.

Read the full article here



Keyfacts

- **Customer:** Balz Maschinen
- **Location:** Switzerland
- **Industry:** Wood industry, mechanical engineering
- **Machine/Project:** Mechanical engineering
- **LÜTZE Solutions:** LÜTZE SUPERFLEX® Cables



Products used for this application

Outside Cabinet:



LÜTZE SUPERFLEX
Part No.: 113100

Possible additional products for this application

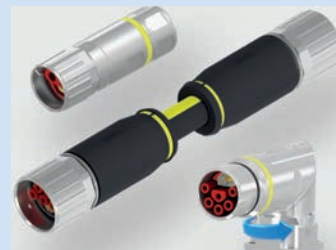
Outside Cabinet:



Tuchel
ecoImate® m
Sensors or auxiliary drives



Tuchel
ecoImate® RM
Motor and robotics applications
with shielding



CONEC
Hybrid connectors B23
overmolded, pluggable, with
mounting flanges



CONEC
Sensor Actor Line
Connectors for bus systems

Solutions for Automatic Racking Systems



AirSTREAM &

AirSTREAM Compact

- Space savings of up to 30%
- Reduction of control cabinet size
- Shorter production times
- Standardization
- High mechanical durability
- Homogeneous control cabinet climate



Further information
about the product



Selective Load Monitoring

LOCC-Box / LOCC-Box Net:

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- Reliable tripping behavior up to 120 m LUNA Board:
- Space-saving, easy to install, with reliable tripping behavior



Further information
about the product



Power Supplies

- Space-saving compact power supplies
- Very wide AC/DC input voltage range and output voltages of 12 V / 24 V / 48 V / 72 V
- Energy cost reduction



Further information
about the product



AirBLOWER &

AirBLOWER Compact

- Reduction of downtime through prevention of hot spots
- Up to 25% energy savings by reducing active cooling demand
- Improvement of the CO₂ footprint
- Homogeneous control cabinet climate
- Reduction of filter mats



Further information
about the product



Ethernet Infrastructure

Switches / POE Switches:

- High operational reliability
- Easy installation
- Process monitoring / monitoring

Ethernet cables: connection of Ethernet technology / monitoring, EtherCAT, PROFINET, Ethernet, CAN bus, and other bus systems



Further information
about the product



Relays and Solid-State Relays

- Support energy reduction and space savings



Further information
about the product



Cable Entries & USB-Interface Technology

BUS Coupler & Gateways:

- High degree of automation
- Process monitoring / monitoring
- High operational reliability

Panelcon® Keystone IP69K:

- Modular, user friendly



Suppression Technology & Valve Connectors

Suppression technology:

- For operational safety

Valve connectors:

- High protection rating
- Energy reduction with Energy Saver



M8 & M12 Actuator/Sensor Technology

- High degree of automation



Further information about the product



Further information about the product



Further information about the product



Cable Glands / Cable Entries

Cable entries:

- High protection rating and mechanical durability, easy to install

Cable glands:

- High protection rating, easy handling



Cables & Cable Assemblies

Servo cables and assemblies:

- According to Siemens®, Allen Bradley®, Bosch®, and soon SEW standards

Data and control cables:

- For flexible and highly flexible applications and high mechanical durability



Circular interface

Mpronto-12 socket & plug:

The first M12 push-pull connector

— backward compatible

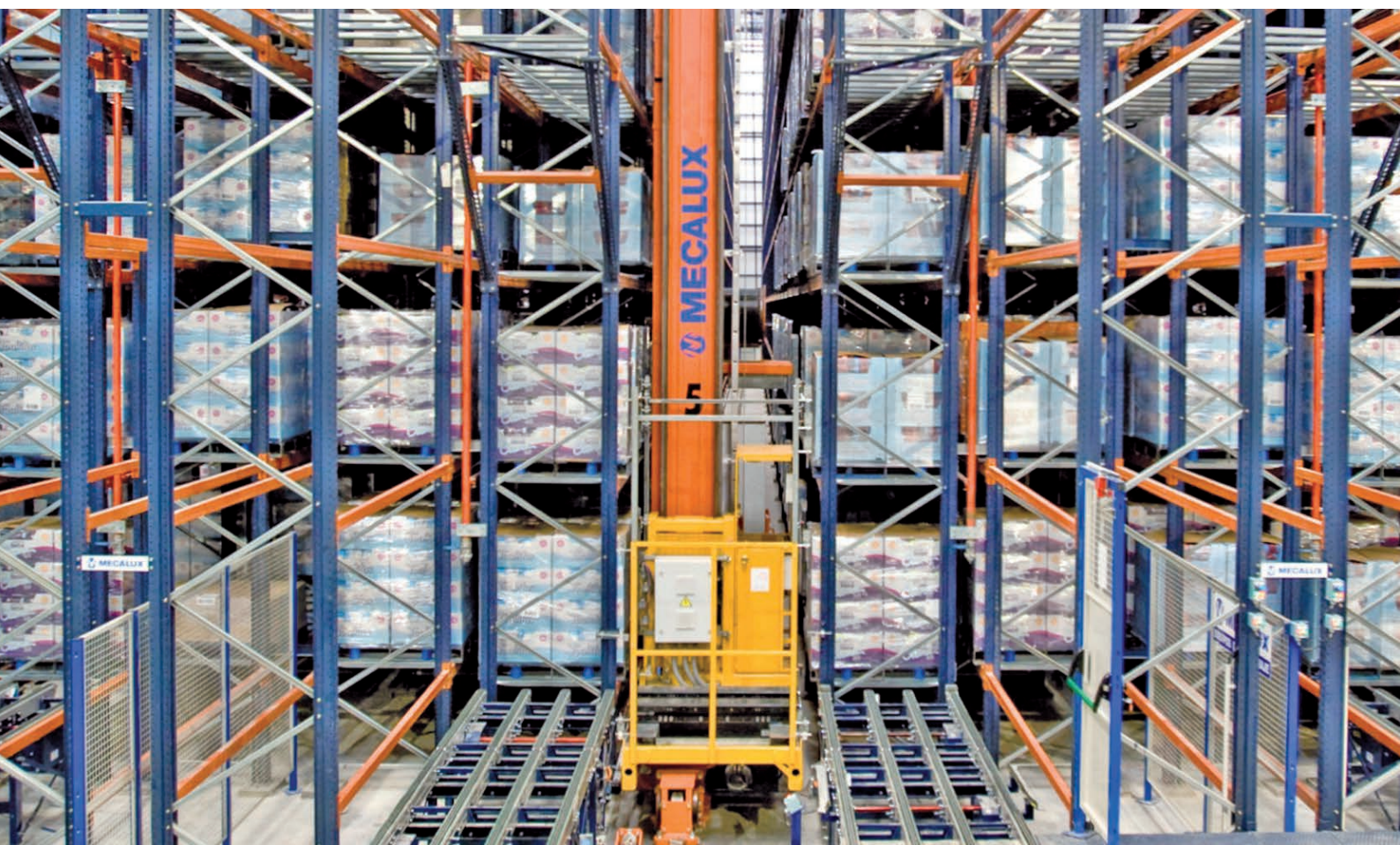


Further information about the product



Further information about the product

LÜTZE Wiring for Storage and Retrieval Machines



Mecalux is an internationally leading supplier of storage systems, with over 50 years of experience and a presence in more than 70 countries. The company specializes in the development, production, and distribution of metal racking systems, automated warehouses, and related services. One key focus area is automation, with storage and retrieval machines (SRM) reaching heights of up to 45 meters.

In collaboration with LÜTZE, the design of the SRM control cabinets was optimized. The previous cabinet versions — 800, 1,000, and 1,200 mm

wide — offered limited space and insufficient cooling. A new frame design now allows for the compact installation of all components on a single level. The significantly improved airflow of the LÜTZE channel-free wiring system ensures higher operational reliability.

The major advantage: a standardized frame design can now be used for all performance classes, even within an 800 mm cabinet. This simplification in mechanical design considerably reduces project duration. Control cabinets are now pre-wired and can be expanded depending on the model.

An additional compact frame on the lifting carriage enables the flexible installation of extra frequency converters.

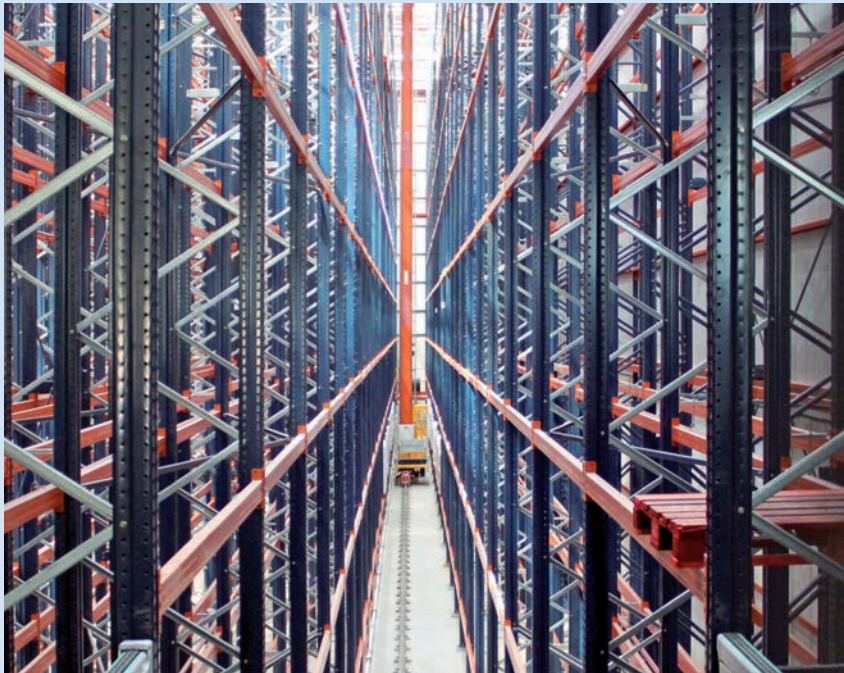
Furthermore, additional LÜTZE components — such as power supplies, relays, and the LOCC-Box — were integrated. The LOCC-Box provides precise and adjustable overload control in 24 V power circuits, enhancing both safety and efficiency in operation.

Read the full
article here



Keyfacts

- **Customer:** Mecalux
- **Location:** Europe, North and South America
- **Branche:** Storage systems
- **Machine/Project:** Storage and retrieval machines (SRM)
- **LÜTZE Solutions:** LÜTZE Wiring System (AirSTREAM and AirSTREAM Compact), Power Supplies, Relais und LOCC-Box



Products used for this application

Inside Cabinet:



LCIS
Relay
Part No.: 770044



LOCC-Box
Electronic Load Monitoring
Part No.: 716416.001.1



LÜTZE Compact
Power Supply
Part No.: 722825



AirSTREAM Compact
Wiring System
Part No.: 360473F0000

Possible additional products for this application

Outside Cabinet:



Tuchel
heavy I mate® C146D
Combines safety and power supply



Tuchel
signal I mate® M16-D / C091
Signal transmission with enhanced capabilities



CONEC
IO-System
Active distribution boxes



CONEC
Sensor Actor Line, overmolded circular connectors M8/M12

Solutions for Cranes and Hoists



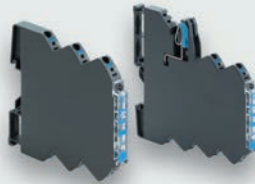
AirSTREAM &

AirSTREAM Compact

- Space savings of up to 30%
- Reduction of control cabinet size
- Shorter production times
- Standardization
- High mechanical durability
- Homogeneous control cabinet climate



Further information
about the product



Selective Load Monitoring

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- LUNA Board:**
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Further information
about the product



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Further information
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AirBLOWER &

AirBLOWER Compact

- Reduction of downtime through prevention of hot spots
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Further information
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Further information
about the product



Relays and Solid-State Relays

- Support energy reduction and space savings



Further information
about the product



Cable Entries & USB-Interface Technology

BUS Coupler & Gateways:

- High degree of automation
- Process monitoring / monitoring
- High operational reliability

Panelcon® Keystone IP69K:

- Modular, user friendly



Suppression Technology & Valve Connectors

Suppression technology:

- For operational safety

Valve connectors:

- High protection rating
- Energy reduction with Energy Saver



M8 & M12 Actuator/Sensor Technology

- High degree of automation



Further information about the product



Further information about the product



Further information about the product



Cable Glands / Cable Entries

Cable entries:

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Cables & Cable Assemblies

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ecoImate® RM (Rugged Metal Shielded Connectors)

- Circular connectors MIL-DTL-26482
- For demanding motor and robotics applications
- Solution for outdoor instrumentation
- Wide range of sizes and layouts with up to 48 pins



Further information about the product



Further information about the product

Britain's elevators run with LÜTZE Wiring System



Since 1976, International Lift Equipment (ILE) has been a leading provider of elevator solutions in the UK market. The company develops and manufactures complete systems and components.

For its new control system, Skycom “Can-X”, ILE was looking for an innovative wiring solution – and found it with LÜTZE.

The LÜTZE wiring system impressed with its compact design, excellent air circulation within the control cabinet, and improved electromagnetic compatibility

compared to conventional solutions.

Skycom “Can-X” is based on a CAN network for decentralized control. Thanks to pre-wired modules, the system can be installed quickly and is immediately ready for operation.

Initially, a conventional setup with DIN rails and wiring ducts was planned. However, the flexible LÜTZE wiring system proved to be a much better fit for ILE’s modular concept.

The engineers developed custom circuit boards with interfaces to

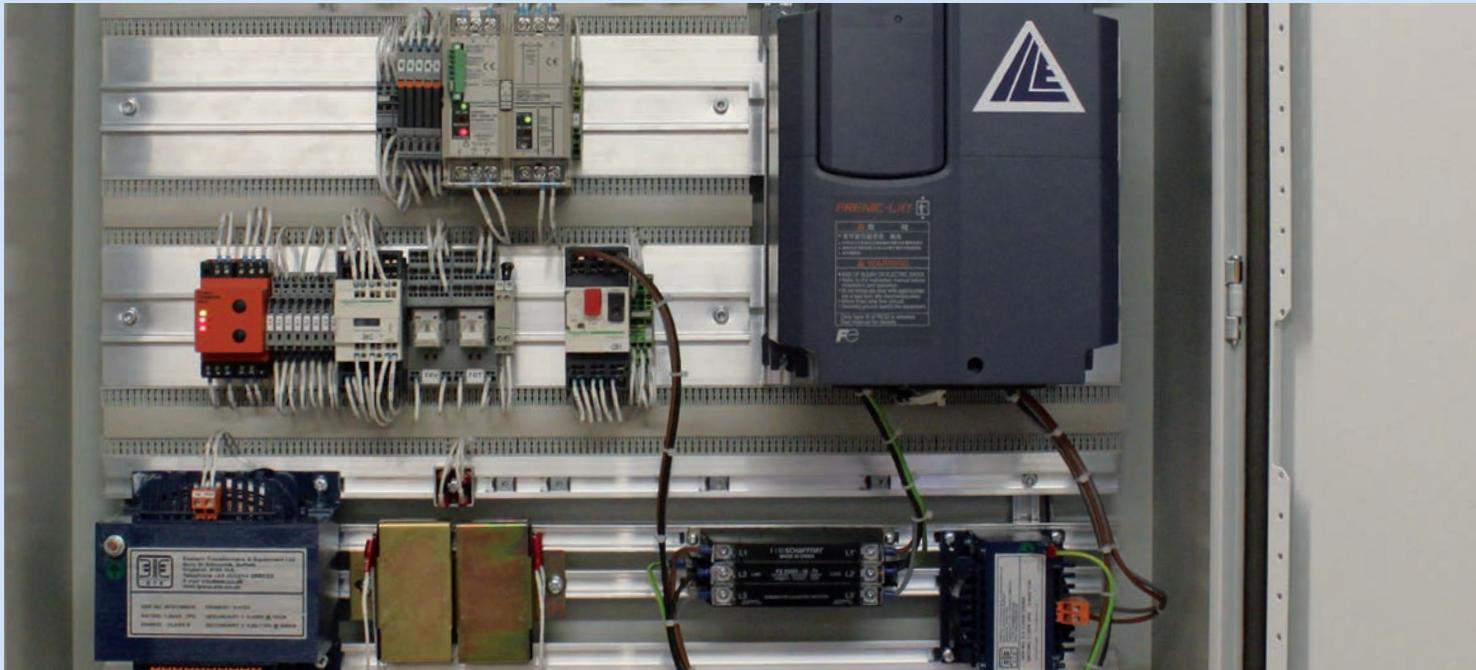
standard components and implemented a well-designed cable harness system both inside and outside the control cabinet.

Read the full
article here



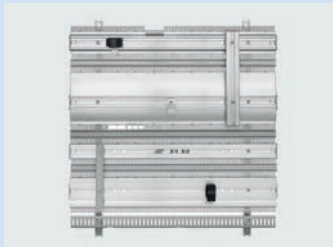
Keyfacts

- **Customer:** International Lift Equipment (ILE)
- **Location:** Great Britain
- **Industry:** Elevator solutions and components
- **Machine/Project:** Wiring
- **LÜTZE Solutions:** LÜTZE Wiring System



Products used for this application

Inside Cabinet:



AirSTREAM Compact
Wiring System
Part No.: 360473F0000

Possible additional products for this application

Outside Cabinet:



Tüchel
eco I mate® m
Elevator machine rooms and
power supply



Tüchel
heavy I mate® Snap DIN-Rail-
Mounting in protected areas



CONEC
Sensor Actor Line M8 Snap with
quick locking mechanism



CONEC
D-SUB Connectors for displays
and control panels

Three-phase switching power supplies: Moving heavy loads with precision



Ingenia Sistemas develops solutions for the automation of hydraulic systems, particularly in bridge construction, where high lifting and thrust forces are required. One of its main customers is Enerpac, a global market leader in the manufacture of hydraulic equipment. Ingenia Sistemas designs hydraulic central units as well as positioning and stabilization cylinders for Enerpac, which are used worldwide by leading companies in civil and structural engineering.

As part of a project, a synchronized lifting and support system was developed for versatile applications. It

is used in infrastructure construction and road maintenance in Australia, covering an area of over 7 million km². The lifting system consists of two hydraulic systems with 10 cylinders each, which can operate either individually or together as a 20-cylinder system.

Control is managed through two control cabinets and three control panels. For 24 V power supply, LÜTZE three-phase switching power supplies were implemented. In addition, LÜTZE relay modules ensure reliable control of contactors and signal communication. A PLC

(programmable logic controller) manages synchronization and load distribution during lifting operations to prevent material deformation or breakage.

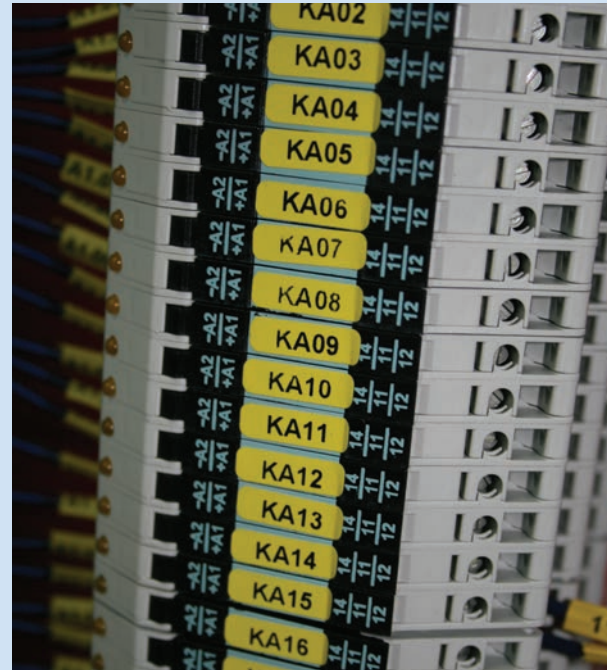
A technical highlight of the system is its remote maintenance capability, which allows operation via the Internet or Intranet and enables remote management of system files as well as the uploading and overwriting of configuration data.

Read the full
article here



Keyfacts

- **Customer:** Ingenia Sistemas, Enerpac
- **Location:** Australia
- **Industry:** Automation of hydraulic systems
- **Machine/Project:** Central hydraulic unit as well as the positioning and stabilization cylinders
- **LÜTZE Solutions:** Power Supplies, Relais



Products used for this application

Inside Cabinet:



Compact 3-phase
Power Supply
Part No.: 722817



LCIS
Relais
Part No.: 770044

Possible additional products for this application

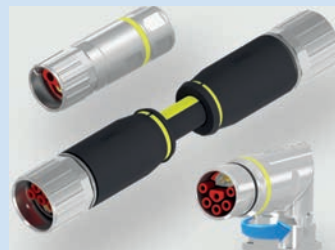
Outside Cabinet:



Tüchel
eco I mate® C16-3
direct connection to power
supplies



Tüchel
heavy I mate® C146Q
control boxes & servo amplifiers

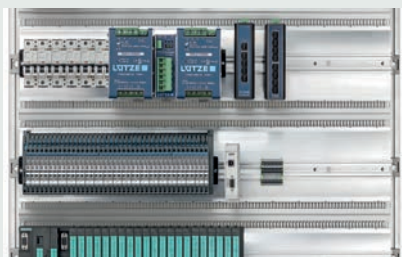


CONEC
Hybrid connector B23
overmolded, pluggable, with
mounting flanges



CONEC
Sensor Actor Line
M12 bayonet quick locking

Solutions for Automated Storage Systems



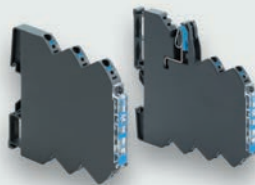
AirSTREAM &

AirSTREAM Compact

- Space savings of up to 30%
- Reduction of control cabinet size
- Shorter production times
- Standardization
- High mechanical durability
- Homogeneous control cabinet climate



Further information
about the product



Selective Load Monitoring

LOCC-Box / LOCC-Box Net:

- Space-saving design, also available as the compact LOCC-Box-M in miniature format
 - Reliable tripping behavior up to 120 m
- LUNA Board:
- Space-saving, easy to install, with reliable tripping behavior



Further information
about the product



Power Supplies

- Space-saving compact power supplies
- Very wide AC/DC input voltage range and output voltages of 12 V / 24 V / 48 V / 72 V
- Energy cost reduction



Further information
about the product



AirBLOWER &

AirBLOWER Compact

- Reduction of downtime through prevention of hot spots
- Up to 25% energy savings by reducing active cooling demand
- Improvement of the CO₂ footprint
- Homogeneous control cabinet climate
- Reduction of filter mats



Further information
about the product



Ethernet Infrastructure

Switches / POE Switches:

- High operational reliability
- Easy installation
- Process monitoring / monitoring

Ethernet cables: connection of Ethernet technology / monitoring, EtherCAT, PROFINET, Ethernet, CAN bus, and other bus systems



Further information
about the product



Relays and Solid-State Relays

- Support energy reduction and space savings



Further information
about the product



Cable Entries & USB-Interface Technology

BUS Coupler & Gateways:

- High degree of automation
- Process monitoring / monitoring
- High operational reliability

Panelcon® Keystone IP69K:

- Modular, user friendly



Suppression Technology & Valve Connectors

Suppression technology:

- For operational safety

Valve connectors:

- High protection rating
- Energy reduction with Energy Saver



M8 & M12 Actuator/Sensor Technology

- High degree of automation



Further information about the product



Further information about the product



Further information about the product



Cable Glands / Cable Entries

Cable entries:

- High protection rating and mechanical durability, easy to install

Cable glands:

- High protection rating, easy handling



Cables & Cable Assemblies

Servo cables and assemblies:

- According to Siemens®, Allen Bradley®, Bosch®, and soon SEW standards

Data and control cables:

- For flexible and highly flexible applications and high mechanical durability



energy I mate® Blind Mating Frame

- Charging interface for over 120,000 mating cycles
- Can be equipped with heavyI mate® M-modules, providing a blind-mating charging system for AGVs
- Tolerance compensation of ± 10 mm in x and y directions
- Up to IP69K protection rating



Further information about the product



Further information about the product

Solutions for Sorting Systems



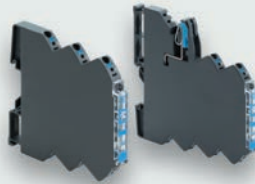
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IP&S Red

The Easy & Safe series offers ergonomic, reliable connectors with PA6 housings, IP44/IP67 protection, 16–125 A, 50–690 VAC

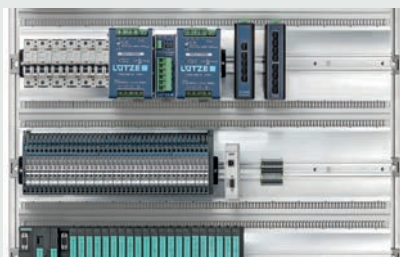


Further information about the product



Further information about the product

Solutions for Automated Guided Vehicles (AGVs)



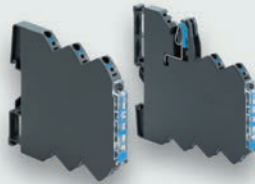
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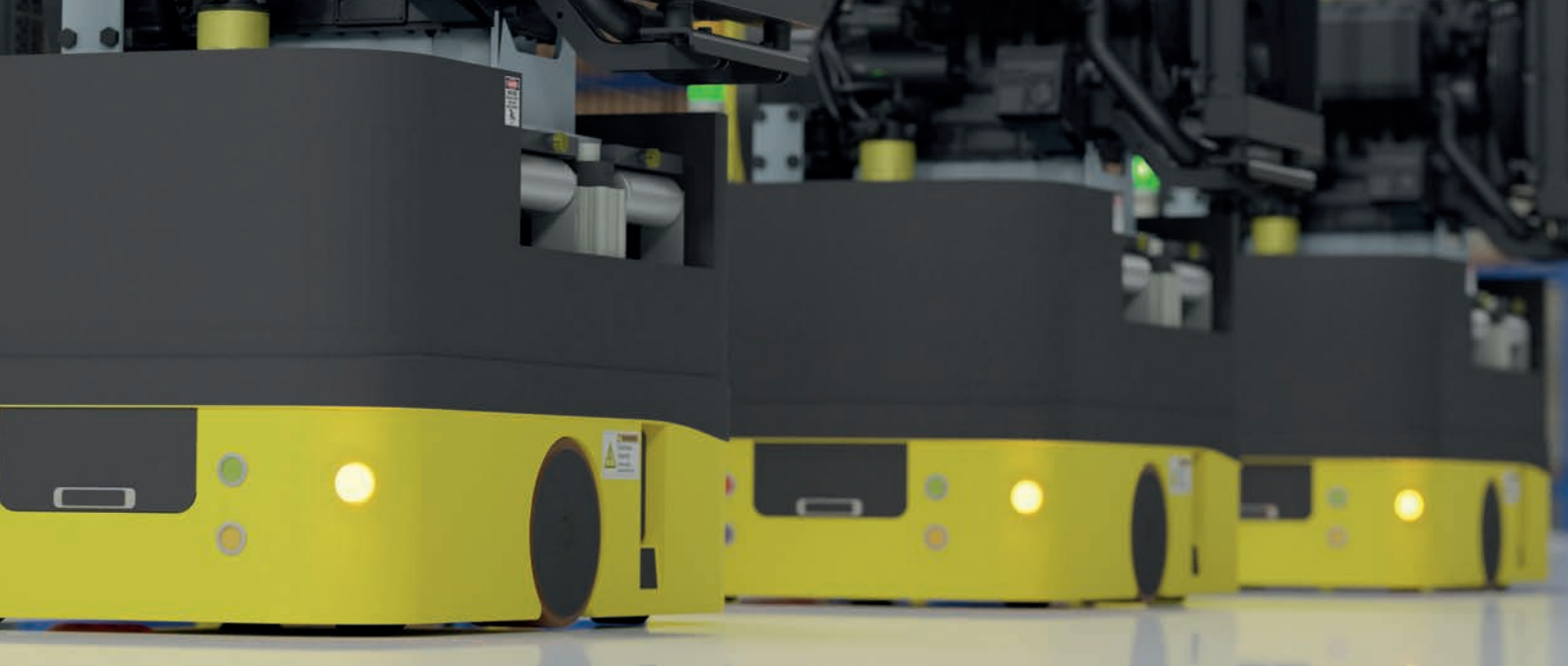


Relays and Solid-State Relays

- Support energy reduction and space savings



Further information
about the product



Cable Entries & USB-Interface Technology

BUS Coupler & Gateways:

- High degree of automation
- Process monitoring / monitoring
- High operational reliability

Panelcon® Keystone IP69K:

- Modular, user friendly



Suppression Technology & Valve Connectors

Suppression technology:

- For operational safety

Valve connectors:

- High protection rating
- Energy reduction with Energy Saver



M8 & M12 Actuator/Sensor Technology

- High degree of automation



Further information about the product



Further information about the product



Further information about the product



Cable Glands / Cable Entries

Cable entries:

- High protection rating and mechanical durability, easy to install

Cable glands:

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Cables & Cable Assemblies

Servo cables and assemblies:

- According to Siemens®, Allen Bradley®, Bosch®, and soon SEW standards

Data and control cables:

- For flexible and highly flexible applications and high mechanical durability



A-Series™

- Wide portfolio of robust rectangular and circular connectors made of plastic and metal
- Cost-effective and high-performance solution
- Designed for use in harsh environments
- Up to IP69K protection rating

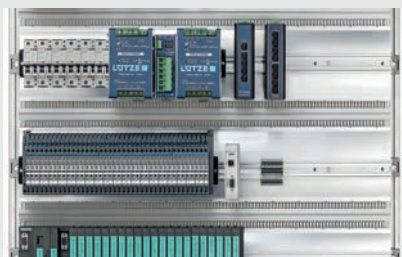


Further information about the product



Further information about the product

Solutions for Palletizers and Packaging Machines



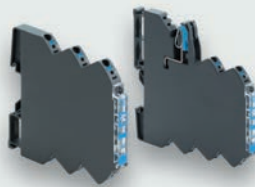
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heavy I mate®

Heavy-duty rectangular connectors:

- Robust design, high protection level
- High number of contacts, various signal types
- Excellent EMC protection, suitable for outdoor use
- Very reliable locking system



Further information about the product



Further information about the product

LÜTZE industry team

Your contacts for lifting and conveying technology and intralogistics

In addition to the products, machines, and system types shown, we also offer further solutions for machines and systems not listed.

Our lifting, conveying, and intralogistics team will be happy to provide personal consultation to help you find the right LÜTZE solution for your specific application.



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Cable Solutions

High flexing cables for industrial applications

Connectivity Solutions

Industrial Ethernet, Cable Assemblies,
Actuator Sensor Interface, Connectors and
Suppression Technology

Cabinet Solutions

AirSTREAM complete system for thermally
optimized and space-saving cabinet wiring

Control Solutions

Industrial Power Supplies and Electronic Current
Control for Industrial Internet of Things. Infrastructure
for Industrial Networks, Signal Converter, Relays and
modular Electronics Housing

SkyBLUE
LUTZE



RoHS

www.luetze.com

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powered by Amphenol