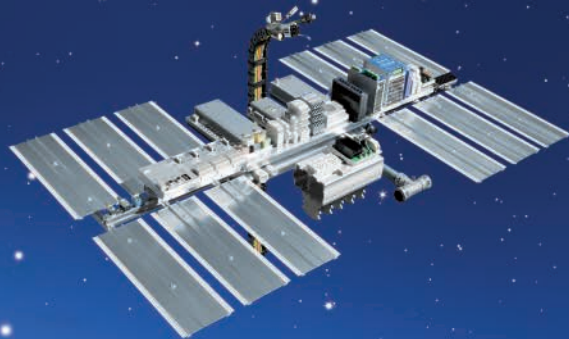


Efficiency in Automation

Cable • Connectivity • Cabinet • Control



SPS Nuremberg 2019

26.-28. November

Hall 9 Stand 311



SYSTEMATIC TECHNOLOGY

Efficiency in Automation

Efficiency in Automation:
This statement reflects our entire
company philosophy

As experienced specialists in Automation Technology with solutions for highly-flexible cables, cable manufacturing, interfaces, current monitoring and control cabinet wiring,

we have been focusing on efficiency for many years.

LÜTZE defines efficiency in the automation field as the use of sustainable products and solutions to further increase the performance of your plant.

This exhibition innovations flyer contains

many interesting examples of this. Join LÜTZE in **Hall 9 Stand 311**.

We are looking forward to your visit!

LÜTZE Sustainable Solutions Hall 9 Stand 311

LÜTZE *Sky*BLUE - Efficiency for environment

*Sky***BLUE**
LÜTZE



For further info about our
*Sky*BLUE-campaign
<https://bit.ly/32kR3GA>

LÜTZE [®]
SYSTEMATIC TECHNOLOGY

Complete system for a better climate inside the control cabinet

LÜTZE's **AirSTREAM** is a complete system to optimise the thermal situation characteristics of the control cabinet modules.

Come to the LÜTZE stand and try out the **AirSTREAM Test + Simulation** to detect the various ways of reducing machine downtime and ensuring more energy efficiency in the control cabinet.

1. Recognising the problem:

- Hotspots and/or high power costs through the use of air conditioning
- Machine downtime
- Thermodynamic design considerations of the control cabinet



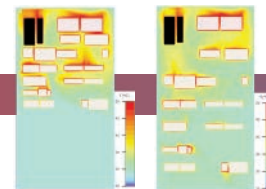
2. Discover differences:

- **AirTEMP** thermal simulation with different wiring types and cooling systems



3. Optimise:

- Thermally improved arrangement of the components
- Component density
- Component placement



AirSTREAM Test + Simulation

Less machine downtime and more energy efficiency

4. Climate inside the control cabinet:

- The use of the **AirBLOWER**
- Intelligent air guidance thanks to **AirBLADES**



5. Plan the control cabinet:

- Use of the free **AirSTREAM** online configurator



6. Find a solution:

- Longer lifecycle of the electrical components
- Power savings thanks to reduced energy requirements for air conditions
- Fewer machine downtimes
- Higher energy efficiency



Time laps!
How to solve Hotspots
with the **AirBLOWER**
<http://bit.ly/2mMBwuY>

NEW: *Air*STREAM Compact

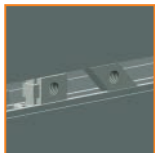
Slide nut channel with new *Air*STREAM stamp

Slide nut channels allow simple attachment of components and can be built over



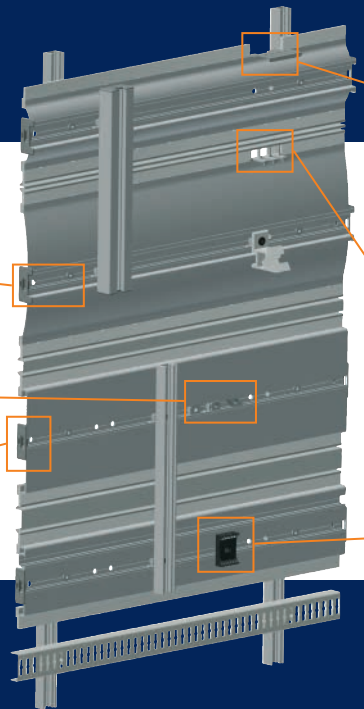
Slide nut variants

Various slide nuts allow use in numerous bar types



Edge protection

Matching edge protection for all bar types



*Air*TEMP heat calculation for the control cabinet:
airtemp.luetze.com



Video: The improved design for better air circulation in the *Air*STREAM system ensures a better ambient temperature in the control cabinet.
<http://bit.ly/2Evro6f>

More flexibility inside the control cabinet



EMC accessories

For securing shielded cables. The EMC accessory is used instead of a comb profile



Replace combs

Combs can simply be released and replaced with a slot-head screwdriver. Different combs can be used depending on requirements



Velcro tape base

Use of UL-certified Velcro tape bases for time-saving and gentle attachment of cables and hoses when wiring the control cabinet



More Space and more flexibility
in cabinet with AiSTREAM.
<http://bit.ly/1amJY4A>



NEW!
Online configurator.
<https://bit.ly/2JJJoOII>

LITZE 
SYSTEMATIC TECHNOLOGY

Power supply in the control cabinet 12 V to 72 V

Intelligent power supply 30 W to 2400 W

- System voltage 12 V to 72 V
- High efficiency up to > 94 %
- Compact design
- Can be freely configured
- Global approvals due to 1-/ 2-/ 3-phases



LCOS-PS



CPSB3-2400

Intelligent current control

- LOCC-Box and LCOS-CC
- 1 and 2 channel versions
- Adjustable current ranges and characteristics
- Energy management (remote access / fieldbus)
- Integration in fieldbus systems Profinet / EtherCAT / Ethernet IP



LOCC-Box



LCOS-CC



Industrial
Power
Supplies



Product Focus
LCOS



Product Focus
LOCC-Box



Product Focus
LOCC-Box ED

LCOS: Flexible housing system and components

LCOS - Empty housing

- Use housing as a standalone solution or as a modular I/O system
- Easy installation; jumper instead of wiring
- Universal connection technology
- 4-wire energy bus, e.g. 3-phase supply of 16A / conductor
- 12-pin data bus
- Central power supply
- 2 housing widths: 22.5 mm and 35 mm



Example
LCOS - System construction

LCOS - Switch

- AC/DC-supply voltage
- Can be used as a standalone module or in the LCOS system
- Universal application e.g. Profinet-IO (RT) and EtherCAT
- QoS, Auto Negotiation, Broadcast current protection
- Extended temperature range
- Compact design
- UL approval



LCOS Switch
4-Ports

LCOS Switch
8-Ports



Control Solutions - online or printed
www.luetze.com

Change and convert in a consistent design!

LCIS - Lütze Compact Interface Systems

- Compact Design 6.2 mm
- Low installation depth < 76 mm
- Innovative screw and push-in connection options
- Insulated jumper system for all options
- Unique terminal labelling
- Secure signal tracking due to 2 mm test opening
- Standard marker for universal labeling
- Versions with manual - 0 - automatic
- Universal application
- Approvals UL, CSA and DNV GL



- Relay modules with 1 change over contact
- Standard and gold-plated contacts
- Closed and pluggable design

Solid State Relay (SSR)

- Switching currents, e.g. up to 10 A @ 30V

Signal converter:

- Standard signal converter
- Temperature converter
- Frequency converter
- Passive converter



More **Control** in the **LÜTZE Relays** catalogue
under www.luetze.com/downloads/

New OCT cable for servo motor systems



Servo cables with
Ethernet functionality
for the new SIEMENS® S210
and BOSCH REXROTH® MS2N
systems



More cable and accessories:
Online catalogue - www.luetze.com

LUTZE 
SYSTEMATIC TECHNOLOGY

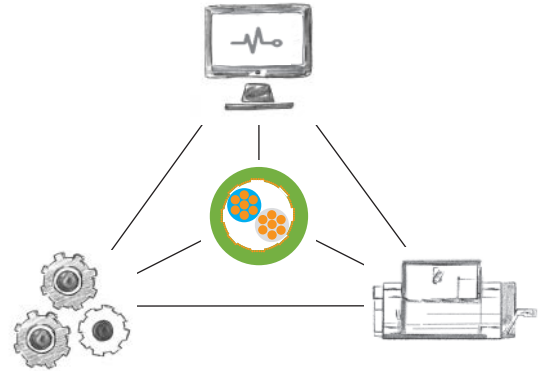
Great performance - Now for single pair Ethernet

Forward-thinking technologies

In addition to the latest highlights, such as the C-track-suitable Cat.7 cables, LÜTZE is also working intensively on future technologies including single pair Ethernet. The single pair Ethernet allows inexpensive sensor solutions and also supports trends such as IIoT and Industry 4.0.

Benefits of single pair Ethernet:

- High compatibility with existing networks
- New applications thanks to flexible application options
- Fast data transmission of large data quantities



More **cable and accessories:**
Online catalogue - www.luetze.com

Great performance - 50 years LÜTZE SUPERFLEX®



Highly flexible cables for various application areas:

- Bus and network cables
- Motor, servo and feedback cables
- Control cables
- Electronic / Actuator-sensor cables



More cable and accessories:
Online catalogue - www.luetze.com

LÜTZE 
SYSTEMATIC TECHNOLOGY

For the new SIEMENS® + BOSCH REXROTH® servomotor systems

NEW

Prefabricated servomotor cables

For the new SIEMENS® S210 and
BOSCH REXROTH® MS2N systems.



According to SIEMENS® Standard 6FX8002-8QN



According to BOSCH REXROTH® Standard RH2



More Connectivity solutions:
Online catalogue - www.luetze.com

Better and faster – M12 Push-In



Simple and tool-free spring-loaded terminals

- 30 % quicker installation than the screw clamp terminal
- No interruption from vibration and shock, due to permanent spring pressure on contact point
- No connection sleeves necessary
- Shielded and unshielded
- Design: male straight and angled
- Installation: Coding can be rotated in 45° increments
- Protection class IP65, IP67 in screwed condition



More **Connectivity solutions:**
Online catalogue - www.luetze.com

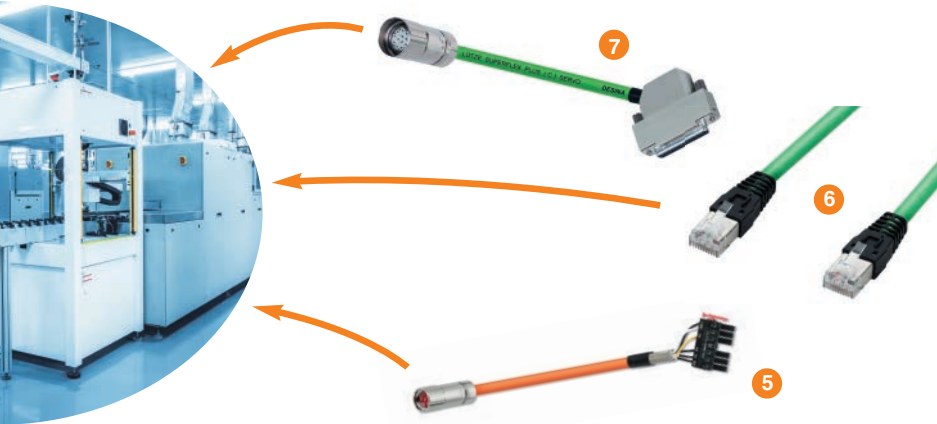
LÜTZE Connectivity Solutions

- 1 Suppressors for valves
- 2 Profinet RJ45 connector
- 3 Actuator Sensor Interface
- 4 Panel connector RJ45
- 5 Servo Power cable
- 6 Ethernet cable with an RJ45 connector
- 7 Servo Feedback



More **Connectivity solutions:**
Online catalogue - www.luetze.com

Solutions from one source



LÜTZE supplies the 'all-round carefree package' from one source for your systems and machines. Cable assemblies for servo drive systems, suppression technology, connectors and industrial ethernet.



File E486936
ZPFW2 / ZPFW8

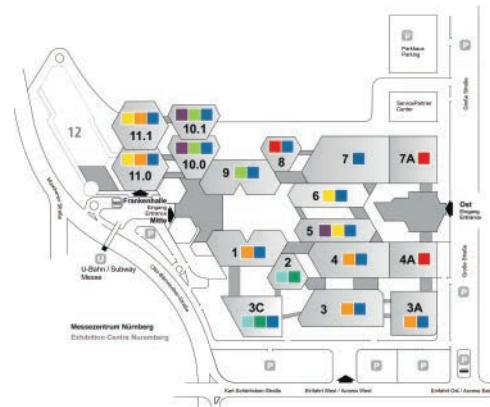
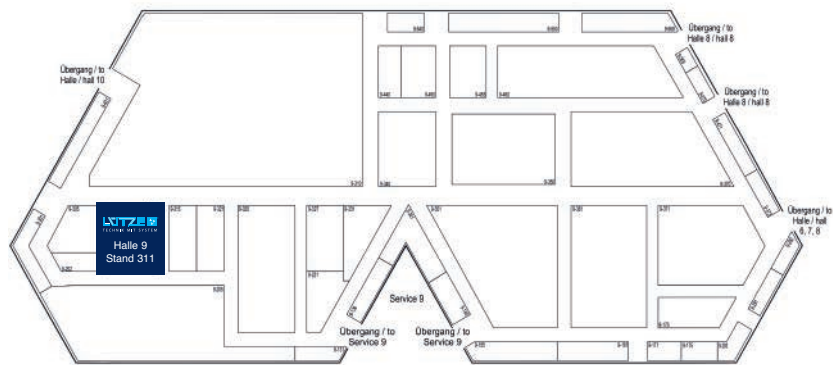


More **Connectivity solutions:**
Online catalogue - www.luetze.com

LÜTZE 
SYSTEMATIC TECHNOLOGY

Hall 9 Stand 311

SPS 2019 - Halle 9 / hall 9



My fair schedule



**Don't forget to try Maultaschen at LÜTZE!
(Swabian Ravioli)
We look forward to your visit!**

**Hall 9 Stand 311:
Win an iPad mini and many more
instant prizes to take home!**



We look forward to your visit!

For FREE tickets or to book an appointment
at the stand for technical advise email:
sps@luetze.de

Friedrich Lütze GmbH
Tel.: +49 7151 6053-0
info@luetze.de • www.luetze.com

LUTZE 
SYSTEMATIC TECHNOLOGY