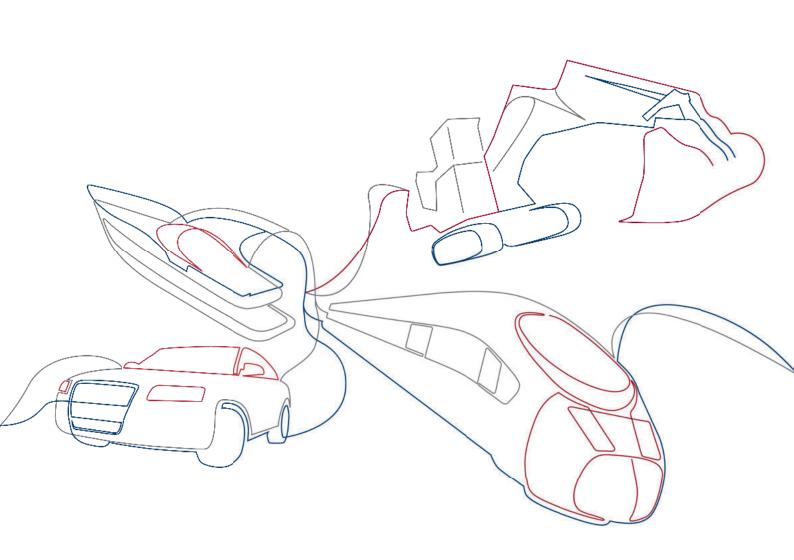
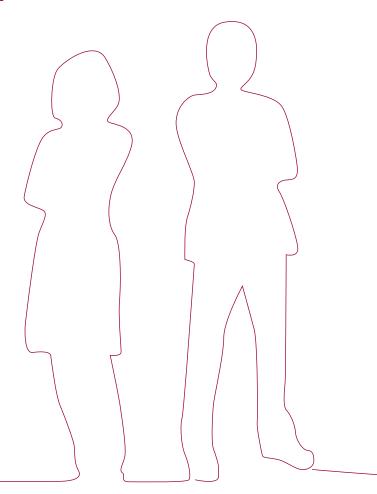


SERVICE SPECTRUM



OUR SUCCESS IS DRIVEN BY PEOPLE



CONTENTS

One-Stop System Solutions	04
International Locations	06
Certifications	07
Product Overview	08
Automatic Electrical Couplers	10
Manual Connectors	11
Connectors according to UIC standard	12
Contact Systems	14
Cable Assemblies & Control Cabinets	15
era-transceiver®	16
After Sales	18





Execution







Customer Requirements



ONE-STOP SYSTEM SOLUTIONS

Implementation

Quality Control

Completion







System Solution

PROMISE TO OUR CLIENTS



International

7 locations on 4 continents mean less hassle and more security!



Local Expertise

Cost efficiency is important, and we will produce where it makes the most economic sense.



Development Expertise

We can develop customized solutions to meet your needs.



High Level of Vertical Integration

For guaranteed flexibility and fast prototype fabrication.



Years of Experience

We combine our 90 years of experience with state-of-the-art technology.



Service

Whether it comes to engineering, design-to-cost workshops, or after sales service, you can count on our support.

There for you all over the world – because quality knows no borders!

We want satisfied customers. This is why one of our main goals is a high quality of our products and our services. Our customers are internationally represented – so are we.

The aichele GROUP has a total of seven locations on four continents.

Whether in Europe, Asia, America or Africa – We are there for you on site!

era-contact USA LLC Liberty SC, USA

- · Sales
- · Project Management
- Manufacturing
- · Purchasing & Logistics

INTERNATIONAL LOCATIONS



Quality Standard: All products are subject to an extensive quality test in the final inspection phase. Of course, we are certified according to current industry-specific standards.

Automatic Electrical Couplers

- · era 1
- · era 2
- · era 3
- · era 4
- · era MCS



- · UIC 541 VE
- · UIC 552 VE
- · UIC 558 VE
- · UIC IT





Manual Connectors

- · Haku 0
- · Haku 1
- · Haku 2



Contact Systems

- · Mobile-Mobile, Mobile-Fixed, Male-Female
- · Open/Close Contacts
- · Ground Contacts
- · Coaxial Contacts:
 - · Coax
 - · Twinax
 - · Quartax



PRODUCT OVERVIEW

era-transceiver®

- · Optical Ethernet Signal Transfer
- Retrofit Solutions (Plug & Play ETHERNET, ETHERNET-UPGRADE-SOLUTION)



Cable Systems

- · Cable Harnessing
- · Assembly Wiring
- · Vehicle Wiring
- Development and Optimization of Customized Harnessing Concepts



Electromechanical Systems

- · Control Systems
- · Switches
- · Control Cabinets & Boxes
- · Driver's Desks



After Sales Service

- · Maintenance
- · Repairs
- · Spare Parts
- · Tools



AUTOMATIC ELECTRICAL COUPLERS

PRODUCT INFORMATION

- Four era-contact standard couplers based on an intelligent modular system
- Various configurations and sizes available, based on type and number of signals, currents and available space
- · Pneumatic or electric actuation, depending on customer specifications
- We will gladly assist you with concepts, design, technical drawings,
 3-D modeling, FEM calculations, prototypes and series production

ADVANTAGES

- Functional security due to decades of operation with proven technology
- Coupling and uncoupling without additional need of personnel, for more flexibility
- Protection against dust and moisture IP degree of protection can be adjusted to requirements
- · Protection against accidental uncoupling, for increased safety
- Our development team can provide individual, customized concepts and product realizations. Customer-specific solutions are implemented in a quick, cost-effective and flexible way.

era-contact, the technology and global leader for electrical couplers, offers project-specific automatic, and manually operated couplers. They can be utilized with all current coupler types used in high-speed and regional trains, trams and subways.



MANUAL CONNECTORS

The manual connectors can be produced and used for control current couplers, high voltage couplers or a combination of both types. Thanks to their robust construction, our products offer a long service life while requiring little maintenance.

PRODUCT INFORMATION

- · For use as control current coupler, as well as high voltage coupler
- · For Stinger maintenance systems
- · For use as fuel level monitoring
- Depending on type, the cover can be locked providing tamper protection
- · Can be customized to meet customer requirements
- · Can be used for rail, utility, construction, agriculture and industrial vehicles

- Functional security due to decades of operation with proven technology
- Locking mechanism protects against unintentional release and uncoupling during travel
- · Long service life and minimum maintenance keep the product profitable
- · Use of aluminum housing reduces weight and simplifies handling
- Our development team can provide individual, customized concepts and product realizations. Customer-specific solutions are implemented in a quick, cost-effective and flexible way.



necessary in all international transportation vehicles including locomotives.

The connectors meet the UIC standard as well as the EN 45545-2 fire protection regulations.



CONNECTORS ACCORDING TO UIC STANDARD

PRODUCT INFORMATION

- UIC 541 VE connectors are used to transmit power and signals for the electro-pneumatic brake for emergency brake application and emergency brake override
- UIC 552 VE connectors are required for all rolling stock, including traction units, equipped with a station current provide. Our system design is based on a voltage of 3.9 kV.
- UIC 558 VE connectors are used for remote switching, remote control and sound reinforcement in and between vehicles. To minimize downtime during maintenance and replacement of worn contacts, we offer a receptacle with an exchangeable insert.
- · UIC IT transmission for infotainment and entertainment applications at up to 10 Gbit/s.

- · Guaranteed coupling compatibility with all available systems on the market
- · Highest quality and excellent reliability validated by decades of use in the field
- · Long service life and minimum maintenance keep the product profitable
- · Protection against accidental uncoupling
- · Implemented as new or refurbished equipment, or as spare part
- · Cost-effective, client-specific, fast and flexible, due to a high level of vertical integration
- \cdot Increased clearance and creepage distances compared to standard UIC 552 3.0 kV systems
- · Additional safety features to protect your employees
 - · Magnetic lock
 - · Electric locking
 - · Grounding concept



CONTACT SYSTEMS

PRODUCT INFORMATION

- · Specially developed contacts offered as the following types:
 - Male-female contacts
 - Mobile-fixed contacts
 - Mobile-mobile contacts
 - Data contacts
- The respective cable connection can be realized either by crimp, screw or plug connection
- Depending on customer specifications, our contacts can handle up to 800 A

ADVANTAGES

- Exchangeable from the front, allowing for easy and reliable maintenance
- Specially developed for operation in harsh and dynamic environments
- Low transfer losses requiring minimum space means increased flexibility for various applications
- Years of development and production experience of numerous contacts for diverse usage ensures a high degree of security

Our contact systems
provide secure and reliable
transfer of multimedia,
communication and control
signals as well as power
usage. They can be found
in many applications like
electrical couplers,
conversion tools, testing
equipment, charging
stations and multi-couplers
in various industries.







CABLE ASSEMBLIES & CONTROL CABINETS

era-contact is your
experienced partner for
cable assemblies, complex
wiring systems and cable
harnesses. In addition,
era-contact provides
solutions specific to your
applications – from
switchboards to control
panels for machines and
systems. We are
prototyping-to-production
specialists in the
mid-quantity segment.

PRODUCT INFORMATION

Cable Assemblies

Tailor-made solutions for complex tasks:

- · Standard and custom cabling solutions
- · Numerous material, sheathing and connector possibilities

Switch Boards & Control Cabinets

Control cabinets made according to customer requirements. For example:

- Specification, procurement, assembly and wiring of systems and components
- · Creation of bill of materials, wiring plans, and documentation
- · Electrical wiring testing
- · System functionality testing

- Highest quality products resulting from over 90 years of experience, combined with modern development and production methods
- Timesaving due to one-stop solution provider: System co-engineering, project studies and development, prototyping or series production
- · Cost saving optimization throughout the entire product life cycle
- Implementation of demanding customer specific solutions with high degree of flexibility
- · Fast prototyping due to high level of vertical integration



Easy Retrofitting

Retrofitting your vehicles with the ETHERNET-UPGRADE-SOLU-TION or Plug & Play ETHERNET option.



The era-transceiver® is an optical high-speed data transfer module that serves as the interface between railway cars. The device uniquely provides secure data transfer at 100% galvanic separation. It is built to handle even the toughest of environmental conditions.





PRODUCT INFORMATION

- The *era-transceiver*[®]'s data transfer principle: The incoming electric Ethernet signal is transformed into an optical signal. In the next car the signal is then transformed back into an electrical signal
- · Data transfer rates between 100 MBit/s and 1 GBit/s possible
- · Full duplex high-speed Ethernet, which means simultaneous sending and receiving of data possible
- · Upon customer request, copper or glass fiber connectors available
- · Retrofit installation in existing vehicles as well as in new e-couplers

- · Optical signals are free of EMC influence, potential shift and relative motion for secure and error-free data transfer
- · No mechanical wear guarantees continuous, secure functionality, since the era-transceiver works contact-free
- · Significantly longer service life in comparison to conventional contact systems, which leads to savings throughout the entire product life cycle
- · Various retrofitting solutions available based on customer requirements
- · With era-transceiver® fibre-extension virtually any existing coupler with two free contact holes can be retrofitted



AFTER SALES

Our After Sales Service
offers optimal products
and services to maintain
and improve the service life
of customer applications.
Using the latest technology,
an expert team implements
customer requirements
regarding mechanical and
electrical modifications.

OUR SERVICE

- Supporting clients in preparation for general inspections with extensive check-ups and eventual repairs
- Upon customer request, spare parts can be made available even up to 40 years after the original product delivery
- Coupler maintenance, setup, testing and repair also include require tools and testing equipment, which are available at era-contact
- Customer-specific training with high practical emphasis pertaining to product maintenance, repair and usage, either at our facilities or your location

- · Original spare parts produced using the latest technological advancements, highest quality standards and covered by manufacturers warranty
- Depending on the contractual agreement, guaranteed national and international service personnel and mechanics respond within 48 hours
- Automatic one-year extension of service guarantee, when repair and testing is done at an era-contact facility



- Punctuality
- · Consistently high quality all over the world
- · Comprehensive service wherever you are in the world
- · Years of expertise for your product
- · International presence
- · On-site engineering service from prototyping to after-sales
- · Original manufacturer
- · A team just for you



a company of



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