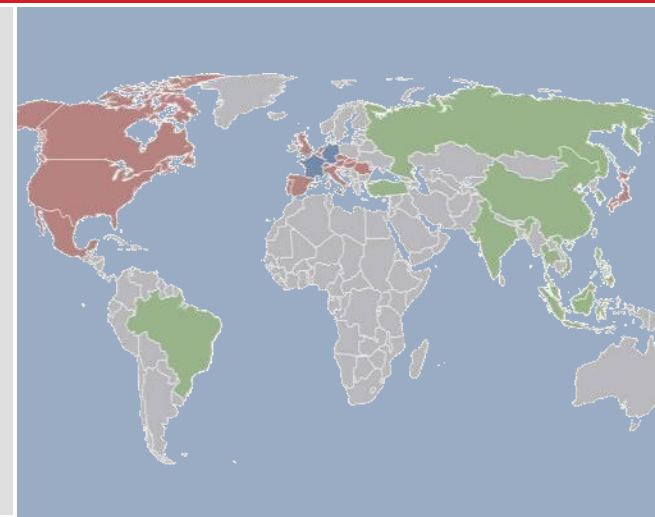


Connector solution for rapid automated charging

W. Kauz

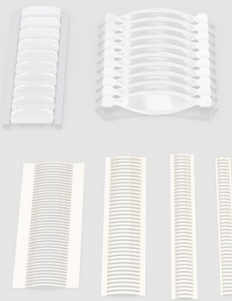


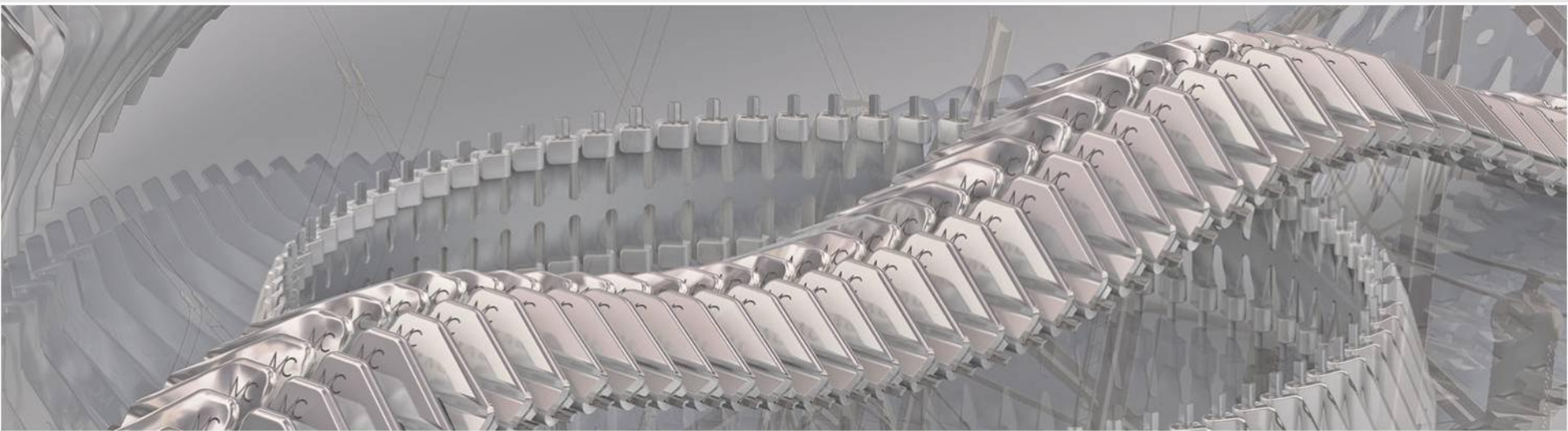
Content

- **Multi-Contact: Our business**
 - Core technology
 - Projects
- **Rapid automated charging coupler**
 - Connection process
 - Technical details

Multi-Contact Core Business

Development and manufacturing of electrical connector solutions based on Multi-Contact's Multilam Technology

- High current-carrying capacity
 - High resistance to vibrations
 - Minimal power loss
 - Minimal contact resistance
 - Round, flat or spherical types
- 
- Usable in air, insulating oil, gas and vacuum
 - Very good corrosion resistance
 - High durability contacts withstand operating temperatures up to 350°C



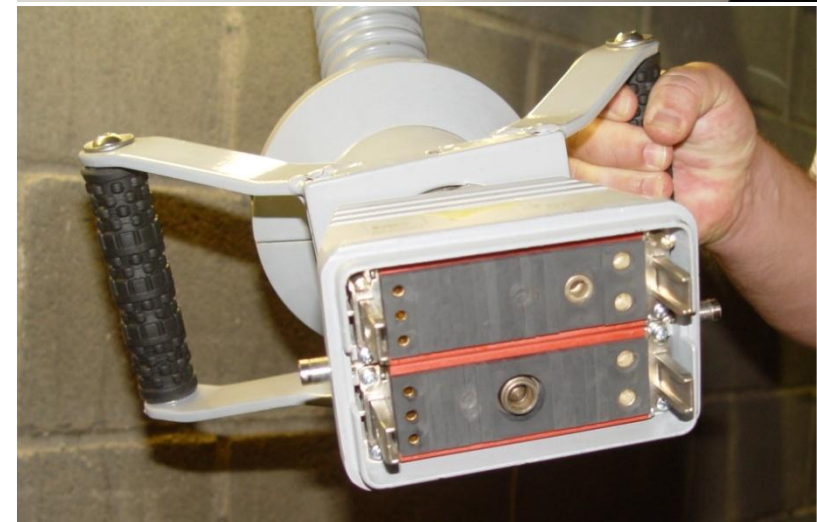
High power connector for a fully electric truck

- Customer demand
 - Robust and reliable connector
 - Safe and quick handling
 - Clear identification of matching parts
- Our solution
 - Standard high power connector
 - Proven locking system for quick and easy handling
 - Touch protection to increase operator safety
 - Mechanical and color coding to ensure correct mating



Versatile connector for an electric bus

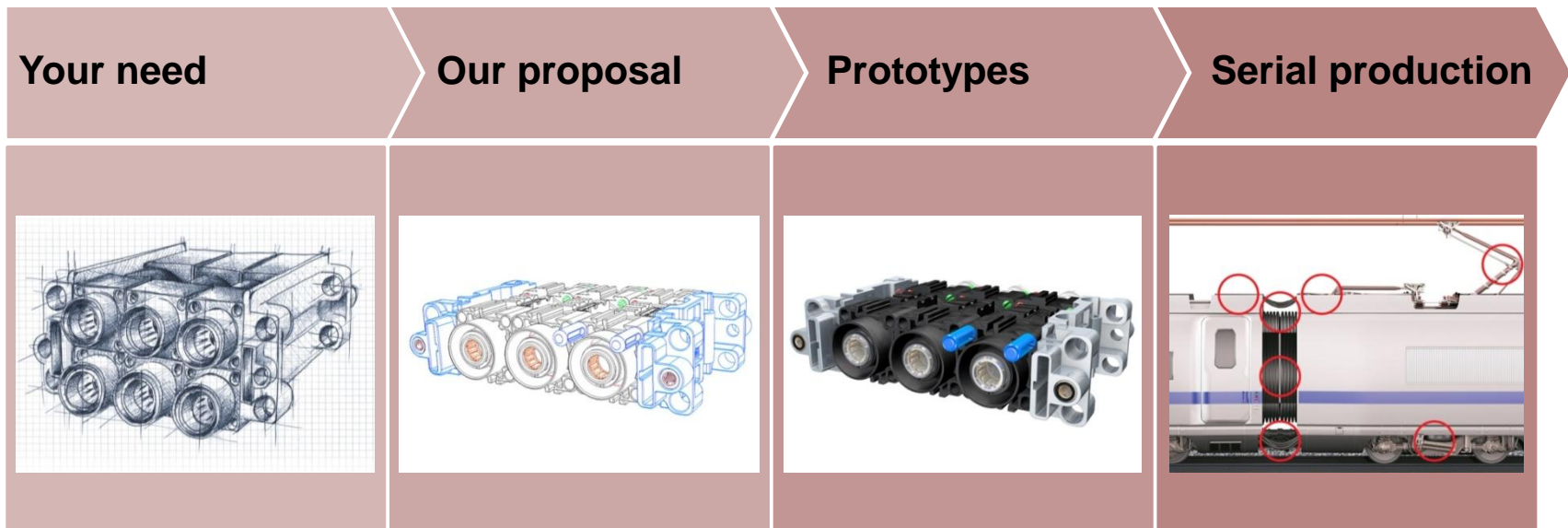
- Customer demand
 - Robust and reliable connector
 - High number of mating cycles
 - One single connector for supply of electric power and compressed air
- Our solution
 - Standard modular connector
 - Combination of electrical contacts and compressed air couplings
 - Free arrangement of contacts



Multi-Contact as Solution Provider

Our specialists are glad to advise and assist you in all development phases

- Our expertise covers the whole range from single parts to highly complex complete systems

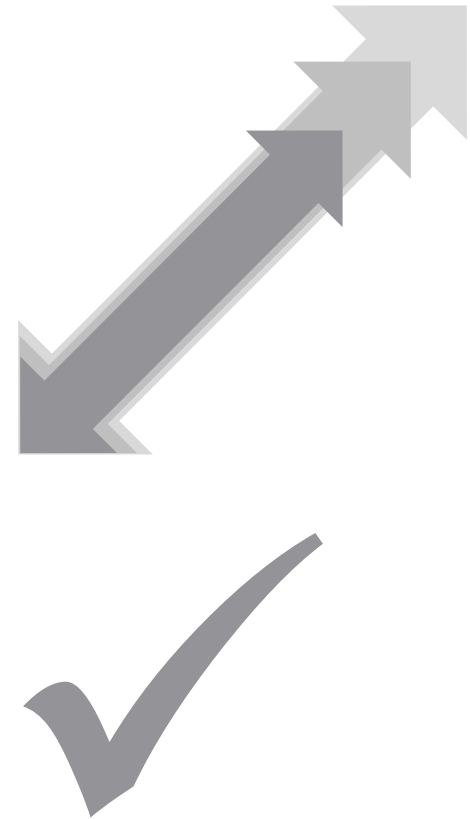


- Various in-house testing capabilities allow us detailed analysis and knowledge of our products

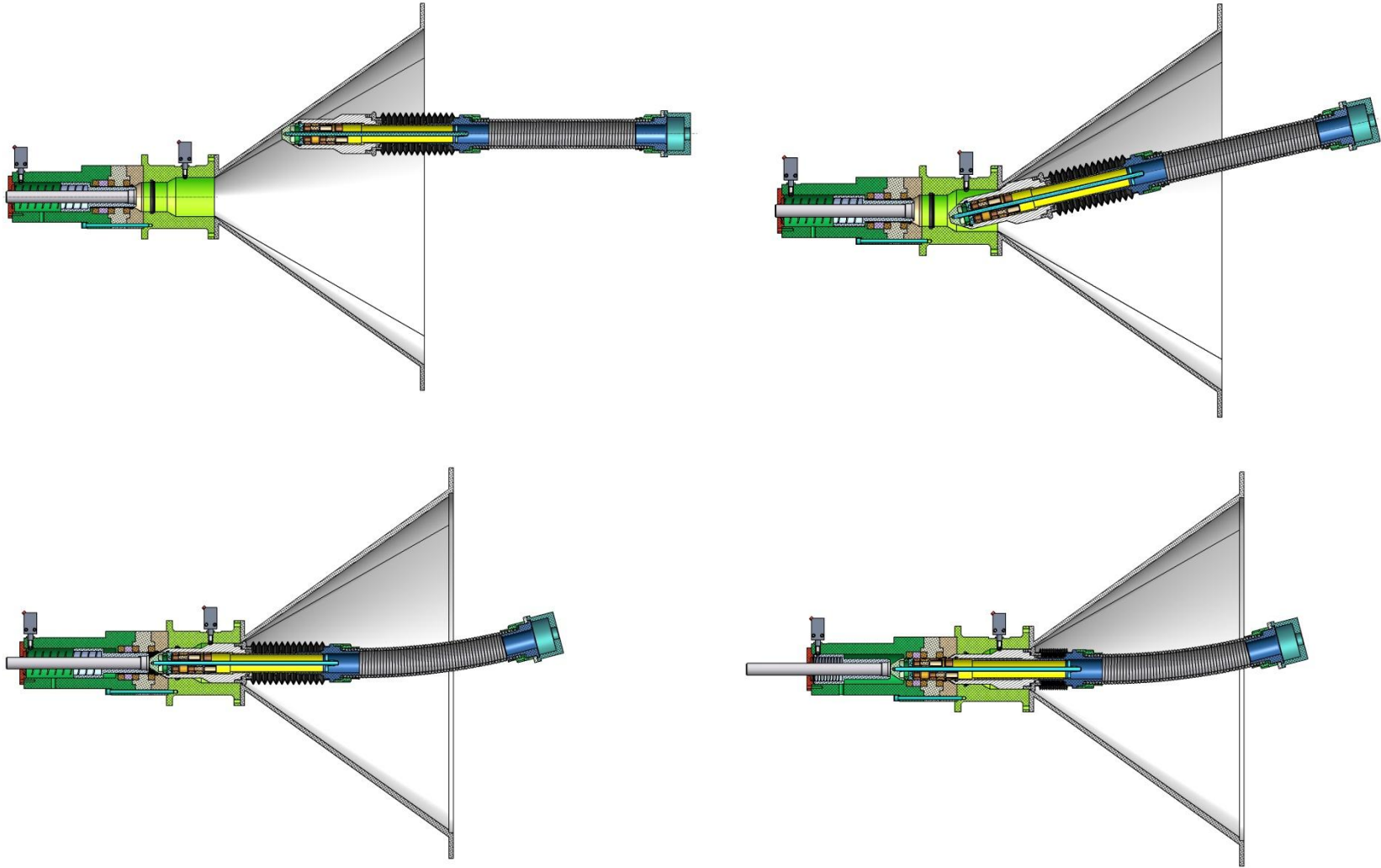
Bus charging solution

Bus charging solution - The details

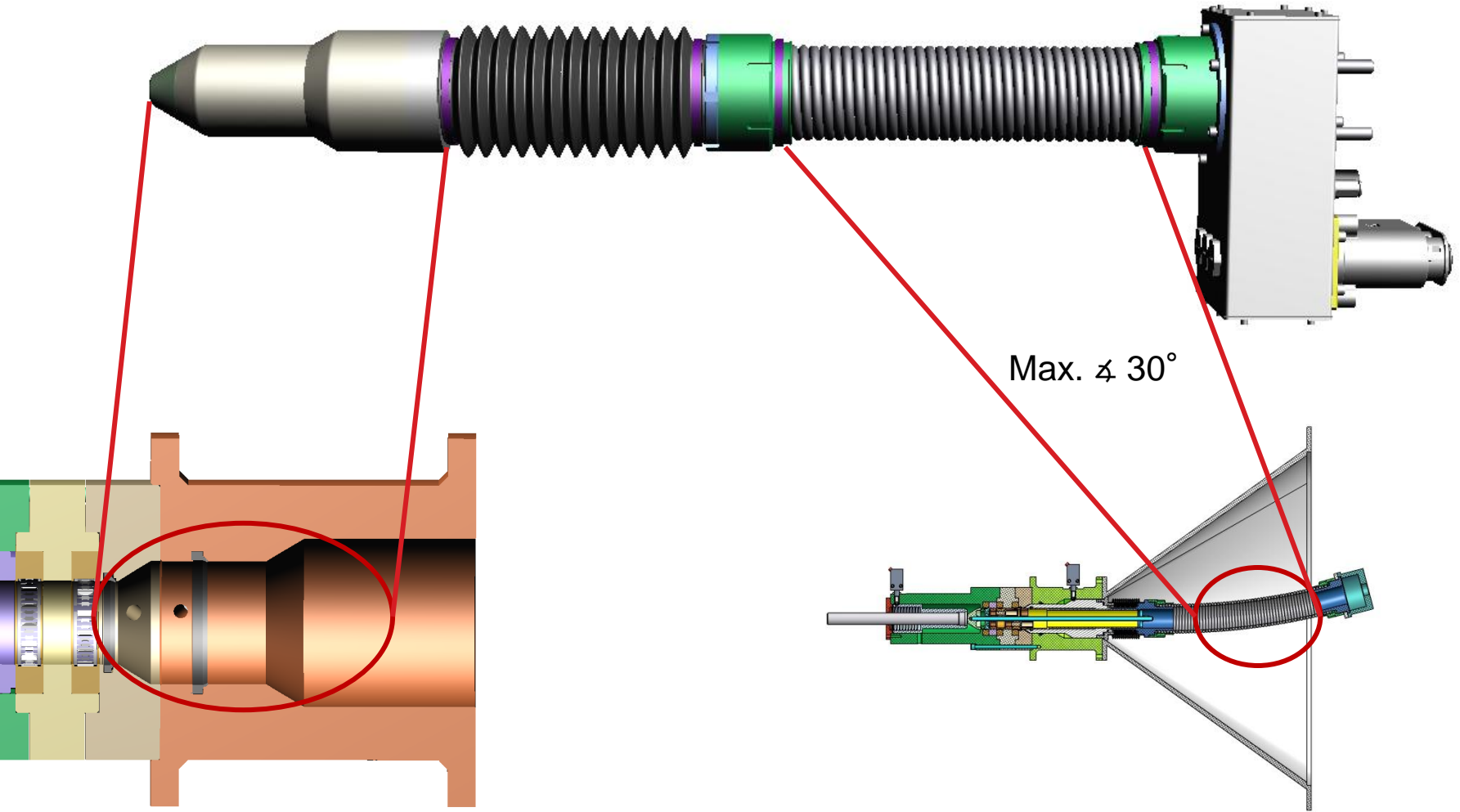
- Charging with approx. 300 kW for 10-20 sec.
- Technical details
 - Adaptable to customer requirements
 - From 10 mm² up to 70 mm² (120 mm²)
 - Different number of poles
 - Two or three power contacts
 - One PE
 - Up to five signal contacts
 - Reliable and safe solution
 - Water ingress protection
 - Touch proof
 - Low contact resistance
 - High number of Mating cycles
 - Self-cleaning



Connection process

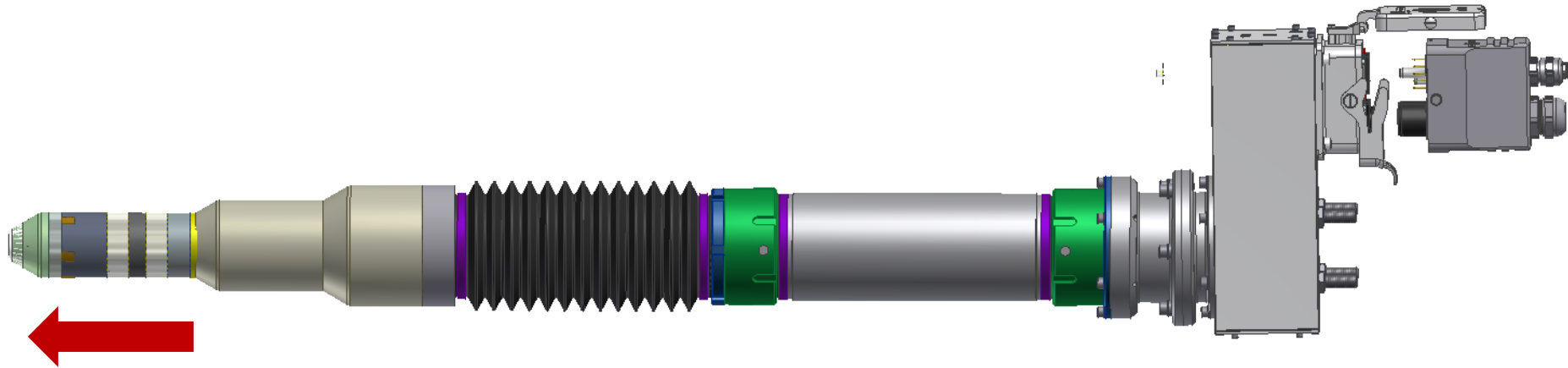


The guiding system



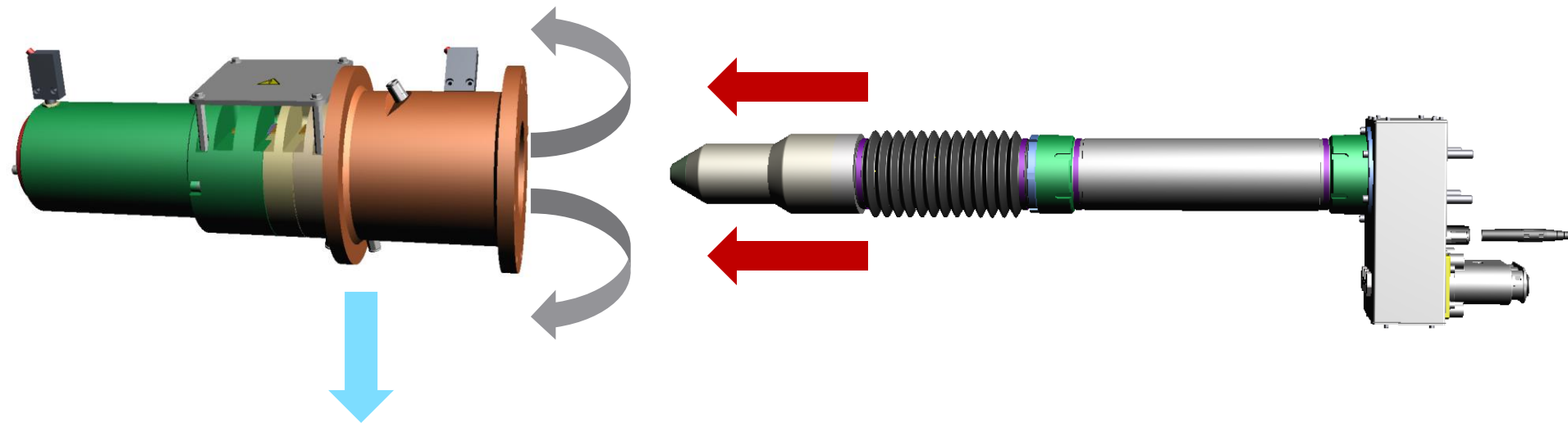
Contact details

- Touch proof in unmated condition
- Contacts only revealed at the end of connection process

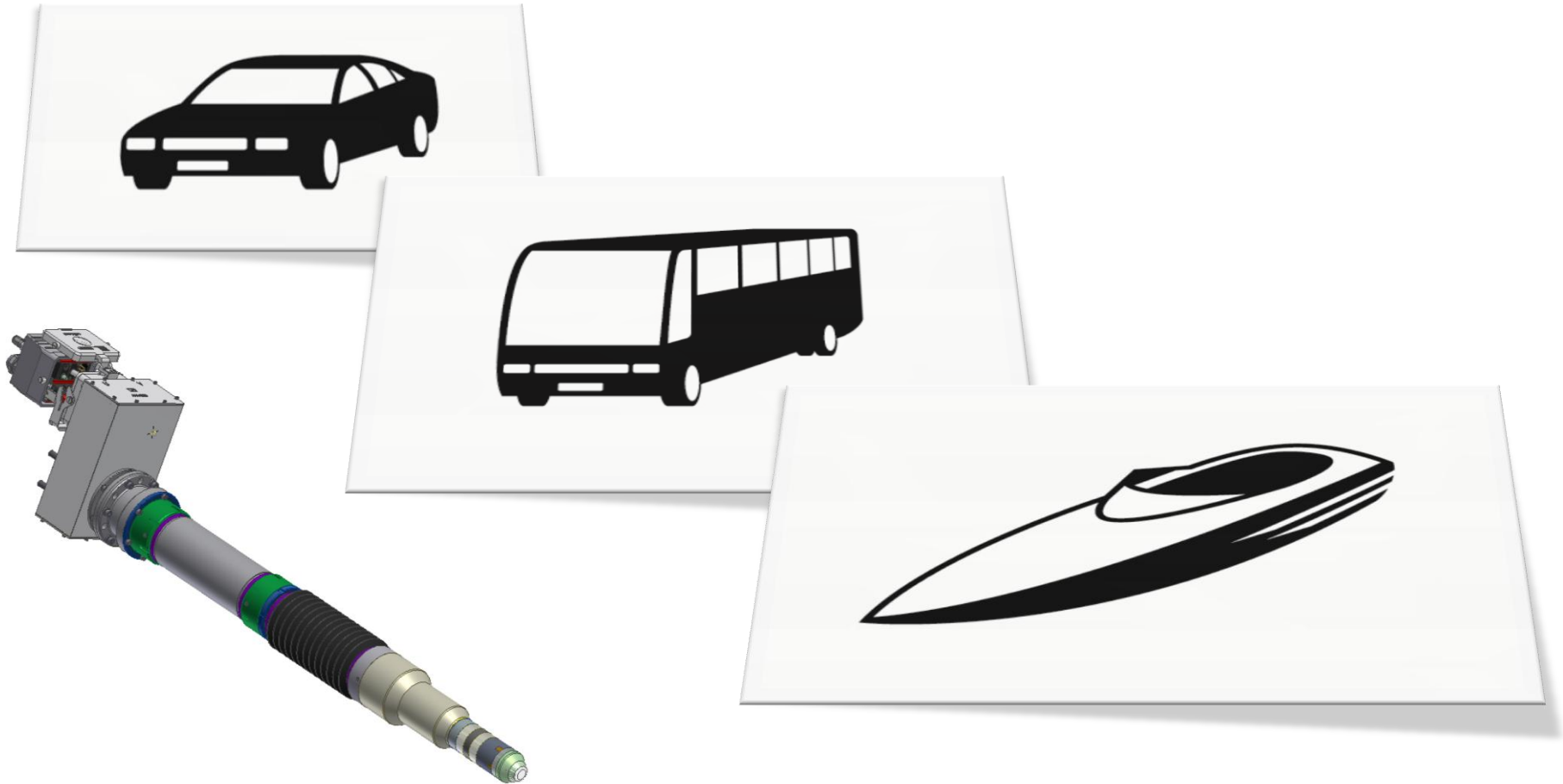


Self cleaning mechanism

1. Compressed air cleans both parts from foreign objects, e.g.
 - Dust
 - Leafs
 - Newspapers...
2. Integrated seals keep water outside the contact area
3. A „clean“ connection is ensured



A charging solution for various applications



Thank you for your attention

Visit us at our booth **F2.32**

www.multi-contact.com

