# Companies that trust in us









































# **Head office**

CE cideon engineering GmbH & Co. KG Tzschirnerstraße 5a 02625 Bautzen, Germany Telephone: +49 (0)3591 3744-60 Fax: +49 (0)3591 3744-80

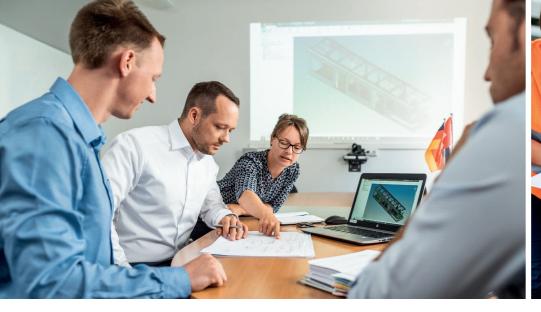
## Locations

- Olbernhauer Straße 5 09125 Chemnitz, Germany Telephone: +49 (0)371 77415-10 Fax: +49 (0)371 77415-39
- Fetscherstraße 24 01307 Dresden, Germany
- Handelsplatz 1 04319 Leipzig, Germany Telephone: +49 (0)341 652336-0 Fax: +49 (0)341 652336-12

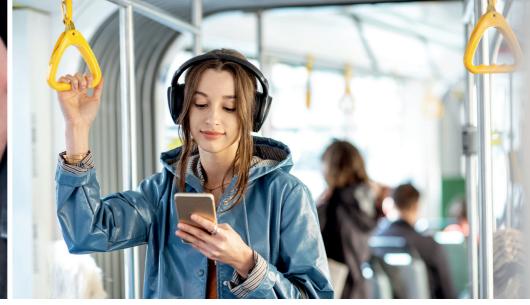
- Huttropstrasse 60 (im Ruhrturm) 45138 Essen, Germany Telephone: +49 (0)201 51784076
- CE cideon engineering Schweiz AG Aeschengraben 6 4051 Basel, Switzerland Telephone: +41 (0)61 20577-50 Fax: +41 (0)61 20577-59











# cideon engineering – we make things possible.

Rail is the backbone of tomorrow's mobility – and comes with unique technical challenges.

- · Implementation of internationally standardized systems to support interoperability
- Development of energy-efficient modes of transport to reduce emissions
- Integration of advanced technologies for modern rail product solutions

This requires experienced experts, who understand the ins and outs from every perspective: from conception and construction, all the way through to approval.

Benefit from our experience – and together, let's get the train rolling.

- Engineering service provider for manufacturers, operators & suppliers
- New construction, modernization & conversion
- Certified in accordance with DIN EN ISO 9001
- Welding certificate EN 15085-2
- ◆ Adhesive bonding certificate DIN 6701-2
- ◆ ISTQB Certified Tester (Advanced Level Test Manager)
- Trained in DIN EN 50126 / 50128 (50657) / 50129
- ◆ Member of the VDB, IZBE, BTS and SWISSRAIL

## **Consulting:** Keeping the train rolling

Your problems are our business. We are a team of rail-vehicle specialists and come into play when things get demanding. We find practical solutions that work—from the start of the tendering process to the end of the approval process.

## **Mechanics:** Designing complexity

Rail vehicles are highly complex systems. And they are what we specialize in: We design freight cars, vehicles for passenger transport, and maintenance vehicles. And we have an eye for alternative transport systems.

## Electrics, control systems & software: Pioneering technologies

We know the technologies that will move the industry in the future. Benefit from our expertise in functional and system development, wiring planning, software development, type testing and validation.

## On-site engineering: Capacities & skills to match your needs

Flexible solutions for your requirements. You receive precisely the support that you need. We offer you the expertise of our team on the legal and contractual terms that suit you.

- Participation in the DIN standardization committee
- 3D modeling with all the relevant CAD systems
- Creation of complete sets of drawings
- Linear and non-linear strength calculation, as well as multiple-body simulation
- Creation of functional vehicle concepts for electrics & control system
- Experienced production support
- Reliable project management
- Individual & flexible support by our experts

## Our portfolio of services throughout the product life cycle:

# Concept

- Feasibility studies
- Research of normative frameworks & patents
- Technical and commercial risk management

# Consulting

- Creation of expertise
- Sustainable solutions
- Support with tendering and quotation

# Construction & mechanics

- Vehicle construction
- Bogie development
- System integration
- · Strength calculation
- Construction gauge calculation
- Multiple-body simulation

### Electrics, control systems & software

- Vehicle electrics
- System development (sub-systems)
- Circuit planning
- Software development
- Testing & validation

### **Construction management**

- Production concept
- Construction of apparatus
- Construction management & acceptance on site

### Commissioning

- Support with approvals
- Safety certification
- Acceptance
- Testing and validation

#### Documentation

- Technical documentation
- Maintenance concept
- RAMS/LCC
- Fleet modernization

Refit

Remotorization