

RAILWAY TECHNOLOGY

Whether **cabin modules** for rail vehicles, **mobile workshops** for maintenance work or technical **containers** for electrification and control - Gföllner develops technology solutions that are tailored to the special requirements of the rail sector.



TECHNOLOGY IN FOCUS

Railway systems place high demands on design, load capacity, safety and integration. Gföllner combines engineering, manufacturing and system integration in one seamless process. This reduces interfaces, simplifies implementation and increases project reliability.

ENGINEERING

- 3D CAD design and collision checking
- FEM analysis for railway-specific load cases
- Shock and vibration design
- Consideration of standards and interfaces already during the planning phase

Your benefit: fewer adjustments during the project and a production-ready solution from the outset.

MANUFACTURING

- Steel, stainless steel and aluminium processing
- Welding in accordance with EN 15085 and ISO 3834
- Cabin, frame and module construction
- Corrosion, surface and fire protection
- High level of in-house manufacturing

Your benefit: short coordination paths, controlled quality and high implementation reliability.

SYSTEMINTEGRATION

- Integration of HVAC, electrical systems and technical components
- EMC-compliant cable and routing systems
- Pre-assembly and functional testing
- Factory Acceptance Test (FAT)

Your benefit: tested, pre-assembled and ready for efficient integration into the overall system.



APPLICATIONS **RAILWAY TECHNOLOGY**

Three areas of expertise for rail operators and infrastructure managers – one partner for mainline and auxiliary rail vehicles.



CABINE CONSTRUCTION FOR RAIL VEHICLES

Robust, weight-optimised driver, control and working cabins – individually tailored to the vehicle, load requirements and operating concept.



MOBILE WORKSHOPS & AUXILIARY TRAINS

User-oriented work, accommodation and supply units for maintenance, servicing and emergency operations.



CONTAINER FOR RAILWAY APPLICATIONS

Modular system enclosures for converters, rectifiers, power supply, charging infrastructure and secondary systems.



CABIN CONSTRUCTION FOR RAIL VEHICLES

Gföllner manufactures ready-to-connect technical cabin units for rail vehicle applications, drawing on decades of experience in highly certified steel construction and modular expertise from container technology.

Modular lightweight design, large access openings and service-friendly construction simplify installation, maintenance and future retrofitting.



Lightweight frame



Surface & corrosion protection

FROM STRUCTURE TO INSTALLATION-READY CABIN

- Welded load-bearing frames in accordance with DIN EN 15085-2
- Weight-optimised steel structures
- Corrosion protection for demanding environments
- Fire protection according to project-specific requirements
- EMC-compliant designs
- Integration of HVAC, electrical systems, doors and technical components



Customised interior fit-out



Integration into the completed rail vehicle

MOBILE WORKSHOPS & AUXILIARY TRAINS

Maintenance, servicing and emergency operations require reliable working conditions directly on the track.

Gföllner develops and manufactures mobile workshop and auxiliary units according to individual customer requirements - especially for applications in the rail sector. Custom-made products for maintenance, servicing and emergency operations.

AUXILIARY TRAIN FOR INFRASTRUCTURE AND EMERGENCY OPERATIONS



TECHNOLOGY FOR RAILWAY APPLICATIONS

- User-oriented design with clearly defined functional zones
- Tested power and media supply
- Optimally coordinated working, technical and crew areas
- Robust and service-friendly design for railway applications





CONTAINER FOR RAILWAY APPLICATIONS

Whether as a vehicle-integrated technology module or stationary energy solution: Gföllner supplies modular container solutions for power converters, rectifiers and secondary technology - space-saving, EMC-isolated, ready for operation.

The mechanical structure, technical equipment and system integration are tailored to the installed components, transport requirements, installation site and future maintenance needs.

POWER CONVERTER CONTAINER



TECHNOLOGY SAFELY PACKAGED. QUICKLY INTEGRATED.

- Technical systems can be integrated and tested at our factory prior to delivery.
- Interfaces and access points are designed for efficient installation, integration and maintenance.
- Structures and surfaces are engineered for high loads and demanding environmental conditions.
- Modules can be customised to project requirements and designed for efficient transport.

CONTAINER MODULES FOR FAST-CHARGING INFRASTRUCTURE, IRELAND

Requirement: For the Dublin Area Rapid Transit (DART) project in Drogheda, seven container modules are being built to house DC switchgear, converter systems and battery storage systems, including technical air conditioning. Depending on their function, the modules are approximately 9 to 14 m long, 3 to 4 m wide and around 3.5 m high.

Implementation: Gföllner realised a modular container system with removable covers, providing optimal access for installation, cabling and commissioning.



GFÖLLNER AT A GLANCE

FOUNDED
1895

REVENUE
€143 MIO.
+49 % VS. PREVIOUS YEAR

 **89,8%**
Export share

EMPLOYEES
854

CZ 169
AT 685

 including
32
Apprentices

PRODUCTION AREA
ACROSS 5 LOCATIONS
68.500 m²

Certificates

- ÖNORM EN 15085-2 – Welding of railway vehicles and components
- EN ISO 3834-2 – Quality requirements for fusion welding of metallic materials
- EN 17460 – Adhesive bonding of railway vehicles and components
- EN 1090 EXC 3 - Execution of steel and aluminium structures
- ISO 9001 – Quality management
- ISO 14001 – Environmental management

These certifications are currently listed on the Gföllner corporate website.

Project-specific design based on:

- EN 45545 – Fire protection on railway vehicles
- EN 50125 – Environmental conditions
- EN 61373 – Shock and vibration
- EN 12663 – Structural requirements for railway vehicle bodies

These standards are applied depending on the respective project requirements and specifications.



ALL FROM A SINGLE SOURCE

One point of contact. Fewer interfaces. Greater project reliability.

- **Planning & design** – requirements analysis and clarification of applicable standards
- **Design & engineering** – 3D CAD, FEM analysis, shock and vibration simulation
- **Steel & cabin manufacturing** – in-house production, welded in accordance with EN 15085 & ISO 3834
- **System integration & FAT** – electrics, HVAC and cable routing tested as one complete system
- **Commissioning** – on site, with complete documentation



DIMENSIONS THAT IMPRESS

Individual modules

up to 6 m wide

up to 25 m long

up to 4.5 m high

up to 100 t load capacity, statically optimized for heavy installations



PRECISION *IN* MOTION

Since 1895, Gföllner has stood for “Precision in Motion” —with expertise in container technology, rail technology, vehicle manufacturing, and rental containers. We develop large-scale technical containers and vehicle solutions for customers worldwide—for applications ranging from industry to energy supply and distribution.

Talk to us about your requirements.



Explore Railway Technology

Cabins | Mobile Workshops | System Modules | References

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