



***Mobility***

# Tram Solutions

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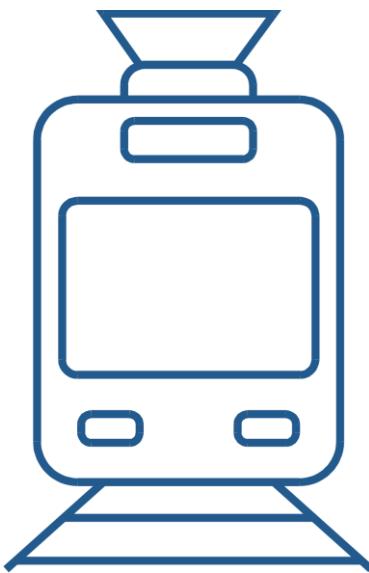
Lightweight and high-quality  
components for trams





# Solutions

We offer a broad and high quality product portfolio of components for trams. Benefit from IRIS (ISO/TS 22163) certified processes with high production capacity for the diversity of our various solutions. With our in-house engineering we provide amongst flexibility, many years of experience and industry knowledge to create new concepts, perform structural calculations and support quality checks on new standards.



## Front cab

We offer **INNOCAB® Advanced**, a self-supporting and **INNOCAB® Plus**, a non-self-supporting, GRP - sandwich cabin. Both are lightweight, ready-to-install front-end cabin units with tight tolerances and superior impact resistance.



## Floor

For high standard floor systems, we provide our long-proven heated floors **COMFLOOR® Advanced** and **COMFLOOR® Plus**. Latest developments include new unheated floors: the very stiff and acoustic optimized **COMFLOOR® Entry** and our very light **COMFLOOR® Basic**.



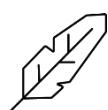
## Structural floor

**XBODY® Floor**- This lightweight and structural floor combines system integration with a thin design for a very low entry and greater clear height. In addition, the floor provides high thermal and acoustic insulation as well as fire protection according to ASTM E119 (>30 min.) and EN45545-2 (HL3).



## Roof

Our light and stiff **XBODY® Roof** provides increased clear height, design advantages due to customizable radii and contours as well as thermal and acoustic insulation. Additionally, the roof offers high load capacity for various equipment and system integrations like cable ducts and frames for air conditioning systems.



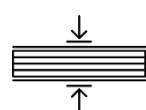
Lightweight construction



Cost saving



Sandwich technology



Optimized thickness



Fire protection



## Side walls

**XBODY® Sidewalls-** Are system-integrated with high thermal and acoustic insulation. These light and structural elements are available with customized shapes and different cover layers.



## Driver desk

**INNODESK-** Our modular and structural driver's desk, made of a lightweight combination of materials, offers a multifunctional structure and thereby reduces secondary costs. This is achieved by eliminating the need for an additional metal support.



## Electrical box

For electrical components like batteries, transformers or compressors we provide our housing box: **eCASE**. With this lightweight and modular solution you gain the perfect opportunity to secure the critical parts



## Claddings

**INFIT® Cladding-** We offer a wide range of claddings, including roof and under-floor claddings as well as flaps. Furthermore, we offer claddings for driver cabs, entrances, staircases, passenger compartments and enclosures for control cabinets.



## Service & Repair

We repair GRP material and all kinds of laminate. Our service includes complex repair including e.g. cutting, grinding and painting. Our flexible offer permits maximum customer satisfaction in time and costs.



## Spare parts

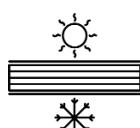
For spare parts our service includes for example re-builds, modifications and adaptations. These parts with customized finishing options can be included in the quantity from the beginning or can be subsequently produced again in (small) series.



Precision



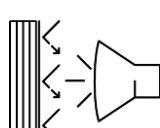
Water repellent



Thermal insulation



Tolerance



Acoustic insulation



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