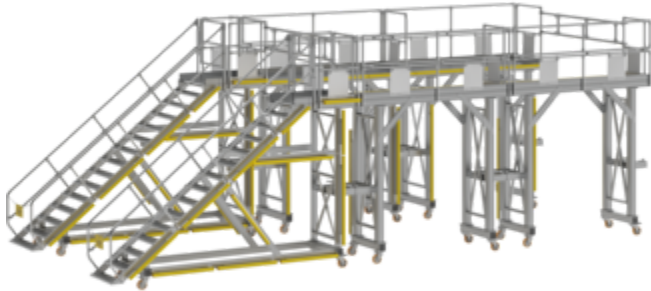


Order no.: REF-30243146

## Platform stairs, mobile and linkable, with end railing



### Specification

Business division <b>MUNK Günzburger Steigtechnik</b>	Sector <b>Commercial vehicles</b>	Type <b>mobile</b>	Height <b>fixed</b>
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### Facts

- Platform stairs: Platform length (PFL): 1,230 mm
- Platform stairs: Platform width (PFB): 1,050 mm / 850 mm
- Platform stairs: Platform height top edge (PFH): 2,800 mm
- Platform stairs: Total width (B): approx. 1200 / 1050 mm
- Platform stairs: Step width (SB): 1,000 mm / 800 mm
- Platform stairs: Step depth (ST): 300 mm
- Platform stairs: Inclination (W): 38°
- Platform stairs: Projection (A): approx. 4,200 mm
- Platform stairs: With safety gates

### Description

#### Client's Request and Task

A manufacturer of fully electric city buses required a specialized work platform for battery replacement. The requirements included a platform ladder with a special inclination for comfortable ascending and descending, a modular structure for different vehicle sizes, foldable railings for crane transport of the batteries, as well as an ergonomic and safe working environment for the employees. Additionally, a stable, reliable, and standard-compliant execution was essential.

#### Customer Requirements

- Work platform for battery replacement in electric city buses
- Modular and ergonomic platform ladder
- Foldable railings for crane operations

- Platform steps - Chassis: Fixed castor on support section Ø 160 mm with Ideal Stop
- Platform steps - Chassis: Swivel castor on the steps (1) Ø 160 mm
- Platform steps - Chassis: Flush beam width (FB)
- Platform stairs - Chassis: Castors for concrete floor
- Platform stairs: Decking: Aluminium grooved
- Platform stairs: Handrail and balustrade: rigid, only balustrade front side pluggable
- Platform stairs: Rubber protection tube on the long side rails and the long sides of the platform (on both sides)
- Surface load: 1.5 kN/m<sup>2</sup>
- Step load: 150 kg
- Platforms: Platform length (PFL): 3,060 mm
- Platforms: Platform width (PFB): 1,050 mm / 850 mm
- Platforms: Platform height top edge (PFH): 2,800 mm
- Platforms: Overall width (B): 1,150 mm / 1,050 mm
- Platforms - Chassis: 4 swivel castors Ø 160 mm with Ideal Stop
- Platforms - Chassis: Flush chassis beam width (FB)
- Platforms: Railing: side facing away from bus rigid, from height 550 mm knee rail can be folded inwards, front side with holder for plug-in railing; side facing the bus with rubber protection strip
- Total load: 300 kg

- Stable and standard-compliant construction

## Our Solution

### Modular Platform Ladder

We developed two platform ladders and four mobile platforms that can be coupled using hook tensioners. Each platform features a gap plate for transition and additionally includes two attachable, telescopic railings, as well as four plug-in railings at the front of each platform. The stairs and platforms offer a comfortable inclination of 38° and are equipped with safety doors.

### Technical Details

The platforms of the platform ladders have a length of approximately 1200 mm and widths of approximately 1000 mm and 850 mm, with a platform height of 2800 mm. The platforms are 3060 mm long and available in widths of 1050 mm and 850 mm, with a total width of 1150 mm and 1050 mm. Both constructions are designed for a surface load of 1.5 kN/m<sup>2</sup> and can bear up to 150 kg per step.

### Safety and Comfort Features

All platforms and stairs are equipped with a chassis with wheels suitable for concrete floors. The railings are partially foldable and equipped with rubber protection tubes to prevent damage to the vehicle. The decking is made of ribbed aluminum.

### Conclusion

The mobile and connectable platform ladder offers a flexible, safe, and ergonomic solution for battery replacement in electric city buses. With its modular design, adaptable railings, and stable construction, it effectively supports maintenance work and contributes to the enhancement of occupational safety.

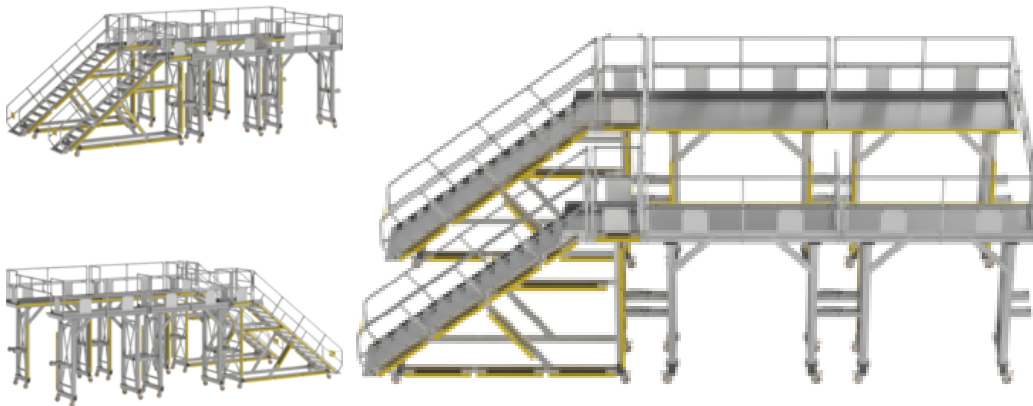
## Information on sustainability criteria

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- Corporate certification: ISO 9001
- Corporate certification: EN 1090
- Corporate certification: EcoVadis
- RoHS
- REACH
- The MUNK Group complies with a Code of Conduct
- The Supply Chain Act does not apply due to our size
- The materials used are listed in the technical specification
- Resource-saving production: own photovoltaic systems
- Energy-efficient consumption during production: LED lighting
- Repairability, durability and quality: 15-year warranty on series products made in Germany
- Recyclability: Our products are mostly made of aluminium, steel or wood and can be fed directly into the recycling process.
- Socially acceptable working conditions in production: fair wages, gender equality
- Economical and recyclable packaging: no use of polystyrene, predominantly use of wood and cardboard, small amounts of plastic
- No health hazards for the users

## More product pictures

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## Added value

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**Trust us as your competent partner for tailored access equipment solutions. From analysis and design to construction and premium after-sales service, we are the industry leader.**

### ★ Analysis

We set the benchmark when it comes to evaluating access equipment requirements. Our experts take the time to fully understand your specific needs. Following a thorough analysis, we present a customised solution precisely tailored to your individual circumstances. Rely on us to identify your challenges and provide innovative solutions.

### ★ Design

We lead the way in planning bespoke solutions. With creativity, technical expertise, and a deep understanding of access equipment, we develop groundbreaking concepts. Our experienced team designs outstanding solutions that meet the highest safety standards while maximising efficiency and ergonomics for you. Let our expertise and innovative strength impress you.

### ★ Construction

In construction, we set the bar high. Our engineers and production planners possess unique expertise and extensive experience in access equipment. Using state-of-the-art technologies and high-quality materials, we realise your design down to the smallest detail. Precision and quality are our top priorities, ensuring bespoke solutions that meet the highest demands.

### ★ Production

At our modern production facilities in Günzburg, we professionally and efficiently bring your plans and requests to life. Our specialists in access equipment, electronics, and mechanics focus on one thing: quality that delivers on its promises. Every construction, big or small, is crafted with the utmost care and precision and rigorously tested before shipping.

From decades of experience, we know that individual requirements require special solutions. That's why we are here to help you realize your custom construction.

Get inspired by our reference products and make your unique idea a success. We look forward to supporting your project with our expertise and dedication. Contact our competent team for more information and assistance.

With MUNK Group by your side, your custom construction becomes a reality: Safety. Made in Germany.

### What we offer

- On-site consultation and project planning
- Custom development according to your requirements
- Precision manufacturing
- Functional and cost-effective access solutions
- Maximum workplace safety
- Fast delivery
- Compliance with all relevant German, English, and international standards and regulations, such as BetrSichV, DGUV regulations, Machinery Directive 2006/42/EC

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★ **After Sales**

Our commitment doesn't end with the completion of your bespoke solution. We excel in after-sales service. Through assembly, maintenance, inspections, and repairs, we ensure your customised access equipment remains in perfect condition. Our reliable team offers top-tier customer service, ensuring your satisfaction is always our priority.



## Corporate certifications

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on sustainability criteria



Management System  
ISO 9001:2015  
ISO 14001:2015  
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ID 9108612548

