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Order no.: REF-30236812

Working platform set "Power head"

Specification

Business division	Sector	Type	Height
MUNK Günzburger Steigtechnik	Rail vehicles	mobile	fixed

Facts

- Side working platform: Platform width: 1,000 mm
- Side working platform: Platform length: approx. 3,030 mm
- Side work platform: Platform height: 2,450 mm
- Side working platform: Decking: Grooved aluminium
- Side work platform: Railing: rigid, partially foldable
- Side working platform: Load: 200 kg/sqm
- Side working platform: Total load: 400 kg
- Front working platform: Platform length: approx. 1,433 mm with contour cut-out in the centre approx. 282 mm
- Front access platform: Platform width: 1,610 mm

Description

Client's Request and Task

Our client from the long-distance transportation sector tasked us with developing a custom-made solution for maintenance work on high-speed trains. The focus was on realizing a working platform specifically designed for front-end work on one of the most modern high-speed trains. The goal was to create a work environment that is not only ergonomically advanced but also meets the highest safety requirements. The aim was a working platform that facilitates the replacement of windshields, wipers, and lighting at the front end of the train, without compromising the safety and comfort of the maintenance staff.

The challenge was to design a solution that is both stable and reliable, as well as compliant with relevant standards. Our task was to consider not only the ergonomic and safety aspects but also to

- Front access platform: Platform height top edge: 1,500 mm above ground level
- Front access platform: Railing: left and right long side rigid, front side open
- Front access platform: contour adjustment made of chequer plate; contour with rubber protective edge
- Front access platform: Access step ladder can be hooked in with ladder suspension bracket
- Front access platform - platform: 2 swivel guardrails on the long side of the platform with padding, length approx. 1,338 mm
- Front working platform - steps: Step width: 850 mm
- Front working platform - stairs: Step depth: 200 mm
- Front working platform - stairs: Inclination: 60 °
- Front working platform - Stairs: Decking: Aluminium grated
- Front working platform - Stairs: Handrail: rigid on left and right long side
- Front working platform - Stairs: Steps: yellow coated at the top and bottom
- Front access platform - Chassis: Chassis width for track: 1,435 mm
- Front working platform - chassis: Fixed castor on the support section as a flanged castor with extra-wide support
- Front working platform - chassis: 2 lifting spindles with swivel castor in the stairway access area
- Front access platform - chassis: 4 support extensions as fall protection
- Front access platform - chassis: Distance from track to lower edge of ICE 150 mm
- Front access platform - undercarriage: Front undercarriage under ICE
- Front working platform - chassis: 2 forklift shoes on chassis

ensure high functionality and adaptability. The platform to be developed was meant to support the efficient execution of necessary maintenance work while offering high user-friendliness. With a focus on solid and standard-compliant construction, it was essential to design a work platform that perfectly matches the specific contours and requirements of the train unit and simultaneously improves the working conditions for the maintenance staff.

Customer Requirements

- Ergonomic maintenance platform specifically for the ICE3
- Stable, reliable, and standard-compliant construction
- Possibility to perform work at the front end of the train, including the replacement of windows and wipers

Our Solution

Working Platform Set Concept
We developed a set consisting of two symmetrical side working platforms and one front working platform. These platforms can be used both individually and connected to each other to create a continuous maintenance path. The side working platforms feature contour adaptation and are equipped with a foldable additional platform for transitioning to the front working platform.

Specification and Flexibility
The side working platforms provide safe working conditions with their platform surrounded by railings. The detachable staircase at the front working platform allows for comfortable access. All platforms feature a rubber protection edge to protect the vehicle from damage.

Safety Aspects
The platforms are secured on the track using a novel electromagnet. Additionally, the four casters with locks, the foldable transition platforms, and the connectable platforms offer maximum flexibility and safety.

- Front working platform - chassis: 2 swivel fittings with locking mechanism incl. magnet holder and magnet F 300
- Surface load: 200 kg/m²
- Total load: 400 kg
- Step load: 150 kg
- Number of persons: 1
- Additional platform: Platform length: 660 mm
- Platform width: 650 mm
- Platform height top edge: 380 mm
- Step width: 650 mm
- Step depth: 260 mm
- Inclination: 45°
- 6 support legs with rubber shoes
- 4 locking pins for fixing to the platform Ø 40 mm
- Decking: grooved aluminium
- Handrail: left and right long side rigid
- Railing: left and right long side rigid

Technical Specifications and Load
The platforms are designed for a surface load of 200 kg/m² and a total load of 400 kg. The side working platforms have a platform length of approximately 3000 mm and a width of 1000 mm, while the front working platform has a length of approximately 1450 mm and a width of 1650 mm.

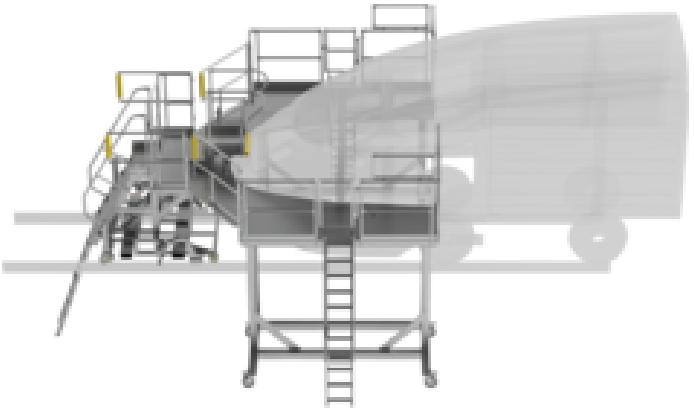
Chassis and Additional Platform
The chassis is specifically designed for the track. The platforms are equipped with a front-end chassis positioned under the ICE. For special operational conditions, there is an additional platform that can be individually adjusted and locked on-site at the customer's location.

Conclusion
The "Power head" working platform set not only meets all the specific requirements of DB Fernverkehr AG for maintenance work on the ICE3 but also offers clear added value through its ergonomic construction and adherence to safety standards. The modular and flexible design allows for quick adaptation to various maintenance scenarios, thereby contributing to efficiency and work safety.

More product pictures







Added value

Trust in us as your competent partner in the field of individual access equipment solutions. We are industry leaders from analysis to conception and design to first-class after-sales service.

★ Analysis

We set standards in the evaluation of access equipment requirements. Our experts take sufficient time to understand your specific needs. After a thorough analysis, we will present you with a tailor-made design that is perfectly tailored to your individual circumstances. Rely on us to identify your challenges and solve them in an innovative way.

★ Concept

We are leaders in the planning of special designs. With creativity, technical know-how and a deep understanding of access equipment, we develop pioneering concepts. Our experienced team designs outstanding solutions that meet the highest safety standards and maximise your efficiency and ergonomics. Let yourself be impressed by our competence and innovative strength.

★ Design

We set the bar high in design. Our engineers and production planners have unique specialist knowledge and many years of experience in the field of access equipment. With the latest technologies and high-quality materials we realise your concept down to the smallest detail. Precision and quality are the first priority – for your special designs that meet the highest demands.

★ Production

In our modern production halls at our headquarters in Günzburg, we can implement your planning and wishes professionally and efficiently. Our specialists in access equipment, electronics and mechanics always have only one thing in mind: Quality that delivers what it promises. That's why every design, whether large or small, is manufactured with the highest quality and precision and thoroughly tested before shipment.

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

Open contact form



★ After sales

Our commitment does not end with the completion of the special design. We are unbeatable in after-sales service. With assembly, maintenance, testing and repairs, we ensure that your special design always remains in perfect condition. Our reliable team provides you with superior customer service and ensures that your satisfaction is first and foremost.



MUNK
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Corporate certifications

Standards for quality and sustainability

Nachhaltigkeit
EcoVadis
sustainable supply management
CSR-Rating in Silber 2022