

Order no.: REF-30230088

Contour-matched docking system



Specification

Business division MUNK Günzburger Steigtechnik	Sector Aviation	Type mobile	Height adjustable
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Facts

- Total platform length: approx. 16,000 mm; divided into individual segments, approx. 7,000 mm and approx. 9,000 mm
- Platform width (PFB): 1,500 mm / of which approx. 340 mm freely cantilevered + 500 mm extension
- Platform height max. (PFH max.): 3,400 mm / 2,900 mm
- Platform height min: (PFH min.): 2,700 mm / 2,200 mm
- Clearance height: approx. 1,960 mm to lower frame
- Adjustment range (V): 700 mm
- Total platform width: approx. 1,700 mm
- Total height (H): approx. 4,500 mm

Description

Client's Request and Task

Our client from the aircraft maintenance sector had a specific need for the development of a contour-matched docking system for the CH53 helicopter. Such a system should primarily feature a strut-free construction to allow unrestricted access to the relevant components of the aircraft. Furthermore, it should create ergonomic working conditions and meet the highest safety standards while being stable and conforming to prescribed industry norms.

Customer Requirements

- Strut-free access to helicopter components for maintenance
- Ergonomic working conditions for personnel
- Compliance with the highest safety standards

- Vario staircase with handrail on both sides and first and last step with yellow nosing
- Step width: 800 mm
- Vario staircase can be hooked in at the front (on both segments)
- Galvanised metal chain with "Do not Enter" warning sign
- 3x3 red/yellow/green LED strips per staircase
- Height adjustment by means of electric motor and threaded spindle
- Adjustment speed: 1.2m/min
- 2 control points: 1 x on the control cabinet and 1 x control unit on the working platform (here only height adjustment upwards)
- Chassis: Ideal-Stop swivel castors (Ø 200 mm) with directional lock, collision protection and foot protection
- 7 extensions with various widths and operation via lock drive and hand crank from the platform
- 4 pull-out extensions with locking mechanism via a lever
- 2 steps can be extended separately with clamping
- Covering: Aluminium grooved (extensions: aluminium chequer plate)
- Safety equipment: Control via dead man's function; minimum and maximum platform height electronically monitored; flashing light; warning signal; key switch on control cabinet for red / yellow / green; traffic light display of blocking status and set-up mode
- Horizontal edge protection strip on the extensions on the side facing the workpiece
- Lighting under the platform
- Earthing connection on the individual platform elements on site
- 3x2 compressed air connections with Y-outlet
- Surface load: 200 kg/m²

- Stable construction in compliance with industry norms
- Electric, stepless height adjustability of the work platforms
- Quick and easy assembly and disassembly of the docking system
- Integration of safety and comfort features

Our Solution

Work Platform Concept

We developed work platforms for both the left and right sides of the CH53 helicopter, which are electrically adjustable in height with stepless precision. The electrically operated extensions allow for precise contour adaptation to the helicopter.

Adjustable Speed and Height

The electric height adjustment enables precise setting of the work platforms. With a platform length of approximately 16000 mm and a variable height, they offer an extensive and flexible work surface.

Media Supply and Equipment

With the divisibility of the platform segments (maximum platform length of 16000 mm), electrically operated extensions, and variable height, they offer an extensive and flexible work surface.

Safety and Flexibility

The connection of the platform elements with quick connectors and the ergonomically designed variable staircase ensure flexibility and safety in the work process. Additional safety features include a robust railing system with foot and knee ledges and the application of a dead man's control.

Control and Limitation

The entire docking system is designed to be operated both manually and in automatic mode,

- Total load: 700 kg

allowing for versatile use in aircraft maintenance.

Electrical Supply

A robust and safe power supply is ensured by the specific placement of electrical installations, which offer good accessibility to operators.

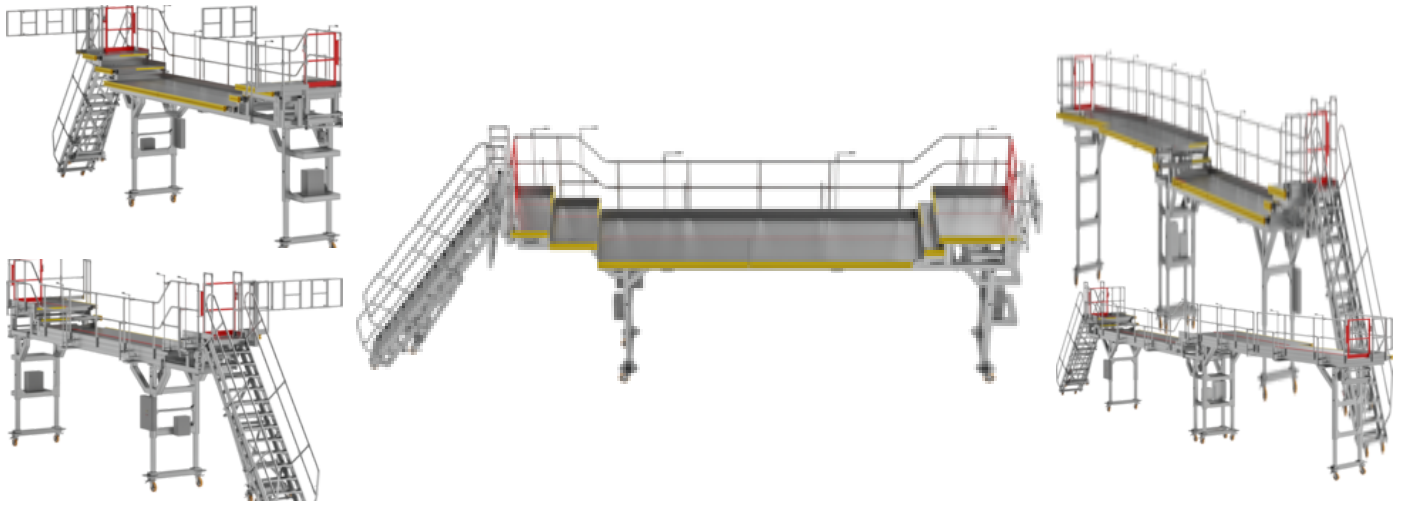
Conclusion

Our docking system meets and exceeds customer requirements through its innovative construction and feature-rich equipment. It enables efficient and safe maintenance work on the CH53 helicopter, contributing to improved working conditions and increased satisfaction of the maintenance staff.

Information on sustainability criteria

- 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



Added value



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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Corporate certifications

on sustainability criteria

