MUNK
Sicherheit. Made in Germany.



Order no.: REF-30230088

Contour-matched docking system

Specification

Business division	Sector	Type	Height
MUNK Günzburger Steigtechnik	Aviation	mobile	adjustable

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
- Total load: 700 kg
- 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.

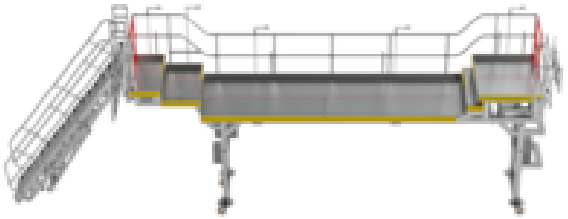
Control and Limitation
The entire docking system is designed to be operated both manually and in automatic mode, allowing for versatile use in aircraft maintenance.

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.

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
Sicherheit. Made in Germany.

Corporate certifications

Standards for quality and sustainability

Nachhaltigkeit
EcoVadis
sustainable supply management
CSR-Rating in Silber 2022