



# WELCOME TO THE WORLD OF HAILO WIND SYSTEMS







49.000
PROJECTS
have been completed
by us in the wind
power industry

5 LOCAL PRODUCTIONS AND SERVICE CENTERS

OVER 30.000 SQM PRODUCTION AND OFFICE SPACE





# WE STAND FOR PERFORMANCE AND PASSION

### YOUR GLOBAL PARTNER FOR ACCESS TECHNOLOGY

As inventor of the aluminum ladder in Europe over 50 years ago, Hailo introduced the professional ladder systems into the wind turbines. So Hailo was there right from the start! Today, Hailo Wind Systems is one of the world's market and technology leaders for safe and reliable access and climbing solutions.

With our premium ladder systems, customised service lifts, state-of-the-art fall arresters, smart climb assist systems, efficient movable platforms and much more, we provide everything for professional access systems in wind turbines — and other industries.

Along with our comprehensive range of services, our international GWOcertified training center Safety And Rescue Academy (S.A.R.A.) sets the standard for safety training and education in many industries with its fully-equipped training tower, video tutorials and e-learning. With own subsidiaries and service centers on 4 continents, we provide our customers locally produced professional products, excellently trained contact persons and service technicians worldwide.

We are proud of our passionate contribution to sustainable energy generation and increased safety in wind turbines.



# Servicelifts

We develop service lifts precisely customized to your requirements. Thanks to our comprehensive expertise, all our ladder- and rope-guided service lifts are characterized by their reliability, quality, smart design and low life-cycle costs.



# Ladders and Fall Arrest Systems

High quality rungs with patented beading and a special antislide profile ensure that the quality of our ladders is wellknown worldwide. Our rail- and rope-based fall arrest systems offer maximum safety and are also available pre-assembled.

### Climb Assists and Access Platforms

Our innovative climb assists and our movable platform are the smart alternative to service lifts and are also ideally suited to retrofit projects. Enjoy the advantages of our brandnew solutions and rediscover climbing technology with Hailo Wind Systems.

# WE INTRODUCED THE PROFESSIONAL LADDER SYSTEM TO WIND POWER!

By using the built-in ladder system in wind turbines, you can really experience the safety benefits of high quality components. Only reliable ladder systems can give you the assurance of safety that should be self-evident.

As the inventor of the aluminum ladder, Hailo introduced the professional ladder system to wind turbines 50 years ago. Since this pioneering achievement, we have continuously developed our ladder systems and brought innovative solutions to the market, such as heated, self-deicing rungs or rails with LED lights. Today we offer an extensive range of ladders that are unique in terms of quality and variety.

High-quality rungs with anti-slip profile and patented beading ensure that our ladders are well-known around the world. Of course, our ladders are internationally certified and available in many widths, lengths and with customized rung spacing.

Whether they are for onshore, offshore, cold climate or lattice towers: With our huge range of ladders and accessories, such as ladder connectors, universal anchorage points, rung repair kits or assembly aids, we will always offer the perfect ladder system for you.





Patented, double-beaded rung connection for maximum durability.



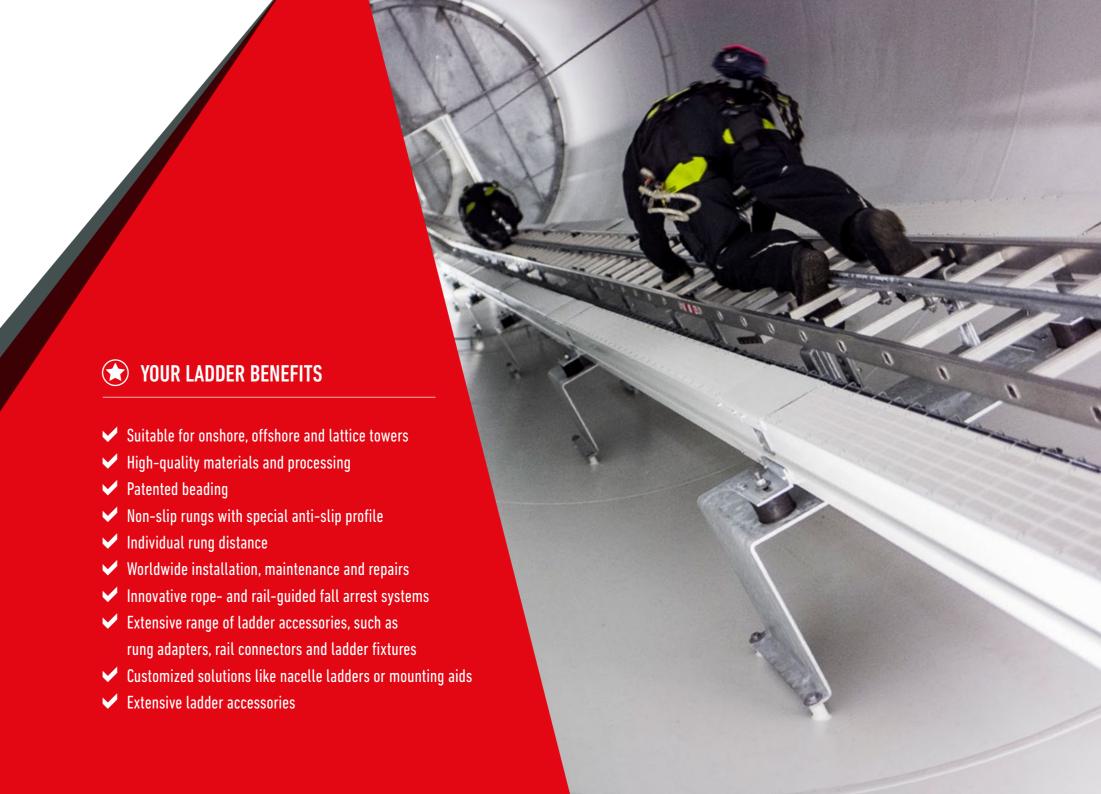
**Safety** 

More than 50 years of manufacturing expertise and worldwide service experience.





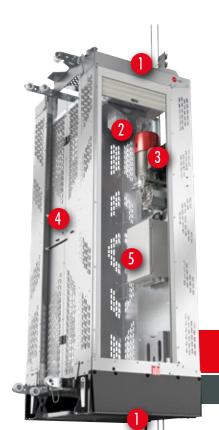
High-quality rungs with anti-slip profile and customized rung distance.



# **TOPLIFT+** (EDITION)

The TOPlift+ from Hailo Wind Systems sets new standards for ladder-guided service lifts. Besides of several innovative safety features, the TOPlift+ particularly stands out for its great reliability and high-quality processing. Continuous enhancements with improved details and new components have made the TOPlift+ even more robust, reliable and powerful. As a result, downtimes and maintenance times have been significantly reduced, while the levels of safety and quality have been increased. This

has caused professional service lifts which exceed even the highest requirements of our long-term customers. Of course, we offer all service lift models in customized versions to meet, for example, the particular requirements of offshore wind power plants. In addition they are also available in compliance with the Machinery Directive 2006/42/EC, CE certified and / or as cold climate versions (CCV). Also, all TOPlift+ models are ideal for retrofitting to existing wind turbines or nacelle turbines.



# SAFETY FEATURES

### All TOPlift+ models are equipped with professional monitoring and safety features such as

- 1. Optimized travel route limits and additional limit switches above and below the cabin ensure maximum safety.
- 2. High quality fall arrester to ensure speed limitation during ascent and descent.
- 3. Reliable hoist in accordance with international (quality) standards.
- 4. Smart folding cabin door at the rear for direct access to the ladder in an emergency or for servicing.
- 5. State-of-the-art control cabinets for a better overview and intuitive access to the e-control. Optionally available with innovative display!



EN 81-44 UPON REQUEST



# **GLOBALLIFT+** (EDITION)

With the GLOBALlift R, Hailo Wind Systems has achieved its goal of producing service lifts that meet the highest quality standards quickly and economically anywhere in the world. The new GLOBALlift H+ (Edition) models have been developed on the basis of a rope-operated 2-man cabin, but are also suitable for transporting one person. State-of-the-art safety systems, such as the continuously improved arresters, hoists and overload protection systems, ensure maximum safety at all times. The modular aluminum structure with its special design allows an improved all-

round view, while the compact 1 cabin affords maximum protection and comfort. This has caused professional service lifts which exceed even the highest requirements of our long-term customers. Of course, we offer all service lift models in customized versions to meet, for example, the particular requirements of offshore wind power plants. In addition they are also available in compliance with the Machinery Directive 2006/42/EC, CE certified and / or as cold climate versions (CCV). Also, all TOPlift+ models are ideal for retrofitting to existing wind turbines or nacelle turbines.



# SAFETY FEATURES

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- 3. Reliable hoist in accordance with international (quality) standards.
- 4. Smart folding cabin door at the rear for direct access to the ladder in an emergency or for servicing. State-of-the-art control cabinets for a better overview and intuitive access to the e-control. Optionally available with innovative display!
- 5. New lateral guide profiles that optimise the guiding characteristics and enable more comfortable usage.



EN 81-44 UPON REQUEST

GLOBALLIFT H / H+ SERIES	H1	H2+	H4	H5.2
Payload / Person [max.]	250 kg / 1 Person	250 kg / 2 Person	250 kg / 2 Person	250 kg / 2 Person
Speed	18 m / min at 50 Hz	18 m / min at 50 Hz	18 m / min at 50 Hz	24 m / min at 60 Hz
Temperature range	-15 °C to +40 °C Up to -35 °C on request	-20 °C to +40 °C	-20 °C to +40 °C	0 °C to +55 °C
Lift dimensions LxWxH [mm]	638 x 670 x 2915	580 x 986 x 3119	703 x 1060 x 2921	815 x 1102 x 3074
Platform cut-out min. [mm]	720 x 720	1300 x 700	1200 x 800	1200 x 940
Cable spacing [mm]	630	1150	1020	1045

GLOBALLIFT R / R+ SERIES	R1+	R2+	R4+
Payload / Person [max.]	250 kg / 2 Person	250 kg / 2 Person	250 kg / 2 Person
Speed	18 m / min at 50 Hz	18 m / min at 50 Hz	18 m / min at 50 Hz
Temperature range	-25 °C to +50 °C On request -30 °C and +35 °C	-25 °C to +50 °C On request -30 °C and +35 °C	-25 °C to +50 °C On request -30 °C and +35 °C
Lift dimensions LxWxH [mm]	683 x 1189 x 2882	683 x 1033 x 2882	780 x 778 x 2882
Platform cut-out min. [mm]	1300 x 800	1200 x 800	900 x 900
Cable spacing [mm]	1150	1020	746

# NEW FEATURES OF GLOBALLIFT+

- Improved hoists & fall arresters
- **✓** E-control with innovative display (optional)
- Many detailed improvements

### MOVABLE PLATFORM

# **C-LIFT** – THE SMART MOVABLE PLATFORM

The C-lift is the smart movable platform from Hailo Wind Systems. Driven via two steel ropes and guided by the fall arrester rail of the ladder system, the movable platform is operated via wireless connection by a drive unit installed on the ground. The C-lift transports one person (up to 120 kg) reliably and safely.

The C-lift not only impresses with its high cost-effectiveness as well as easy installation and operation, but also due to smart features such as its send function, automatic operation (when the treading surfaces are folded in), wireless signal connection, reduced maintenance requirements and its suitability for retrofits.

Versatile safety features such as limit switches for automatic switching off, overload detection, wireless signal redundancies and an emergency-off function, as well as the mandatory twohand operation, ensure the high safety standard of Hailo Wind Systems.



# **★** HIGHLIGHTS

- ✓ Cost-efficient & smart
- ✓ Fast & comfortable
- ✓ Easy operation & maintenance





HIGH TIME SAVINGS
Up to 50 % faster ascent and descent (approx. 150 h/year)

OPTIMIZED WORKING CONDITIONS
Significant improvement in working conditions



FLEXIBLE IN USE Ideal for retrofit projects



LOW MAINTENANCE EFFORT

Reduction in maintenance and low training requirements



EXTENSIVE SAFETY FEATURES
Reliable system of safety services

HIGH COST REDUCTION

Extremely large reduction in total investment per wind turbine



### FUTURE TECHNOLOGY

Investing cost-effectively in the future

C-LIFT	TECHNICAL DATA
Weight	26 kg plus drive unit & control unit
User weight	Max. 120 kg
Speed	18 m / min
Operating temperature	-20 °C to +50 °C
Compatible arrester	H-50.2, H-50 and others
Ladder inclination	-3 ° to +15 °
Power	1,1 kW
Functions	Automatic drive, wireless communication, return function and much more.
Safety functions	Overload detection, limit switches, automatic switching off, emergency-off function, two-hand operation, etc.
Safety instructions	Secure the person using compatible fall arrester. The C-Lift does not replace fall protection or PPE!



# H-50.2 - SAFETY AT EVERY LEVEL



Expertise, experience and know-how from specialists

CUSTOMISED PRODUCTS Excellent solutions for individual requirements

**COMPREHENSIVE SERVICES** Installation, maintenance and much more from a single partner

HIGH QUALITY STANDARDS We are continuously enhancing all of our products

PARTNER H-50.2	TECHNICAL DATA
Weight with BFD (approx.)	1,2 kg
User weight	50 to 136 kg
Possible tilt angles	-3 ° to +15 °
Other special features	Fall protection rail can be used simultaneously with up to 10 persons
	Very simple attachment to the ladder
	Runner detachment at any time
	Very short fall arrester slip path
	Excellent grip on rail even if dirty or oily

### H-50.2 FALL ARREST SYSTEM



Our approved rail-guided fall arrest system for maximum safety and reliability:

- ✓ High-quality aluminum extruded profile
- Worldwide appreciated
- Continuous, frame-less grooved design
- Excellent durability
- ✓ Fast installation
- ✓ Long-term safety
- ✓ EN 353-1:2014 and A1:2017 certifited

## ACCESSORIES

# **MOBILE** DISPLAY E16

The Mobile Display Compact is a practical tool for status and fault readout in service lifts without a display panel. Simply plug it into the control unit and receive a comprehensive status of the service lift in seconds.

Simple, precise and reliable - that's our Mobile Display E16.





# **★** E16 FEATURES

- ✓ Sturdy multifunctional display
- ✓ Specially developed for service lifts
- Fast & precise error analysis
- Accelerated error correction
- Reduce downtimes
- Proven display design
- Easy handling
- Practical magnetic holder

Many other accessories, like rung adapters or rail rackets are also available in many countries. For more details get in touch with us!





# HAILO WIND SYSTEMS

# YOUR GLOBAL PARTNER FOR ACCESS SOLUTIONS

Quality, reliability and safety always have top priority for our products and services. Whether service lifts, ladders, fall arrest systems, climb assists, movable platforms, tower equipment, hoists, fall arresters, e-controls, ropes or individual requirements: Hailo Wind Systems as your global partner enables you to achieve new heights with safety.

Hailo Wind Systems – High Level Access Solutions.

# VALUES ENGAGEMENT

**SAFETY** 



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