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3S Lift Products

Elevating Health & Safety

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Our Vision, Our Mission

The Leading Wind Turbine Tower Internals Solution Provider

Since our company was founded in 2005, it has been our mission to combat climate change. That's why we offer solutions that contribute to the effectiveness, efficiency and acceptance of renewable energy.

We want to enable people to service wind turbines safely and protect their health. We believe in delivering safe, innovative and cost-efficient wind turbine tower internals that benefit our customers, employees and the planet.

3S Lift | Company Introduction

Over the last two decades, 3S Lift has become a leading global supplier for tower internals and the No. 1 market leader in Asia. With a global presence of around 700 employees and locations in China, India, Europe and the US, 3S Lift provides a wide range of products to wind turbine manufacturers, tower manufacturers, service providers and wind farm owners across more than 40 countries. Our network of subsidiaries and service partners around the globe, allows us to provide prompt and thorough technical support to local customers everywhere.

In 2019, we expanded to our brand new manufacturing facility in Tianjin, China. This modern production site allows us to meet the growing global demand for 3S Lift products. As the one-stop-shop for our customers we offer tower internal components such as Service Lifts, Climb Auto Systems, Climb Assists, Aluminum Ladders, Fall Protection Systems, Auto Descending Devices, Blade Maintenance Platforms, Offshore Cranes and more. In addition to our broad product portfolio, we provide engineering services to develop and customize products according to customer needs.

3S Lift is driven by a culture of safety and innovation which is why we have obtained ISO9001, ISO14001 and OHSAS18001 certifications and hold over 300 patents.

Our more than 100 R&D engineers ensure that our solutions always fulfill our 3S brand promise: "safe, simple, specialized".

Worldwide, 3S Lift has supplied nearly 40,000 Climb Assists, 40,000 Climb Auto Systems and 20,000 Service Lifts. Through continuous research and development for new equipment and services, we strive to support our customers in creating clean energy for a sustainable future.

Climb Assist

Climbing Assistance for Improved Health & Safety

The repetitive motion of climbing the turbine tower is time-consuming and strenuous. Our Climb Assist provides a constant lifting force during tower ascent and descent, significantly reducing fatigue and strain. This boosts health and safety while also augmenting employee satisfaction and retention.

The 3S Lift Climb Assist features an advanced design that automatically adapts to the climber's speed. Variable-frequency vector control assures precisely attuned assistance, whether climbing up or down the tower. No manual operation is required to start or stop the system, allowing the operator to always maintain a safe hold on the ladder.

Climb Assist Specifications

Lifting force	Adjustable from 30–50 kg
Wire rope diameter	6 mm
Protection class	Motor: IP 55; control box: IP 66
Power supply	Single / 3 phase, 220 V, 50 / 60 Hz. Optional: 3 phase, 400 V, 50 Hz
Lifting speed	Adapts to climber's speed; max. 37 m/min
Operating temperature	-40°C – +60°C
Weight	Control box: 3.3 kg; motor: 17 kg
Certification	CE, ETL, OSHA compliant



Advanced Speed-Adapting Technology

Equipped with advanced speed adapting technology, the Climb Assist provides steady assistive force, adapting dynamically to the climber's speed.

Variable-Frequency Vector Control

Variable-frequency vector control enables excellent dynamic performance and comfortable assistive force.

Ascent and Descent Assistance

The Climb Assist offers a constant lifting force of 30–50 kg (65–110 lbs) during ascent and 30 kg (65 lbs) during descent. This reduces stress on the body, especially on the knees and ankles.

Minimal Maintenance

The drive and the control box are designed to require no annual maintenance, reducing the overall maintenance time of the Climb Assist to a minimum.

Top Sheave

The top sheave fits between the top two rungs, thus minimizing required installation space.



Traction Wire Rope

The traction wire rope is made of steel, providing safe and reliable performance in addition to extraordinary durability.



Control Box

The lightweight control box is waterproof and vibration-proof. It features an industrial cable plug for convenient and quick connection. If desired, it can be used as a portable device to support multiple Climb Assist units.



Motor

The motor provides a continuous lifting force of 30–50 kg.

