

The logo for Survitec, featuring a stylized white 'S' icon followed by the word 'survitec' in a lowercase, sans-serif font.

survitec

EVACUATOR

FIRE PROOF DESCENT DEVICE

Safety within your reach



THE OFFSHORE WIND REVOLUTION



Since the first offshore wind farm was commissioned in 1991, there has been a substantial drop in the cost to produce energy from offshore wind farms.

This is due to a multitude of reasons... one of which is the production of bigger, more powerful turbines.

With wind turbines increasing in height, we know the safety of your maintenance personnel and their means to escape in an emergency is your number one priority.

It's ours too.

Did you know...

The tallest offshore wind turbine stands 260m (853ft) tall and has a rotor diameter of 220m (721ft).

THE EVACUATOR SOLUTION



In an emergency every second counts. With the Evacuator, your technicians can escape within 10 seconds.

Designed to save the lives of those working at heights ranging from 6 to 300 meters, the Evacuator is the world's fastest and most user-friendly, fire proof, collective descent system.

This award winning system provides a quick and intuitive escape and descent solution for your technicians in an emergency situation. It is suitable for installation on wind turbines, offshore substations, harbour cranes and other high rise structures.



EVACUATOR EMERGENCY DESCENT SYSTEM WINS PRESTIGIOUS OFFSHORE WIND INDUSTRY AWARD



Simon Gray EEEGR CEO, commented: "We're very pleased to award Survitec and Evacuator Worldwide the EEEGR Offshore Wind award for the pioneering Evacuator Emergency Descent System. Their collaborative effort demonstrates their commitment to increase the safety of those working within the offshore energy sector and it's great to have both companies with us as EEEGR members."

KEY FEATURES



Always ready to go



User friendly,
click on and go



1750 °C (30 minutes)
1200 °C (90 minutes)

Fireproof System



Fully automatic
descent



1 Meter
per second

Controlled descent speed



No electricity
required



282kg
per reel

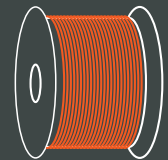
Collective descent load (maximum)



50m



165m

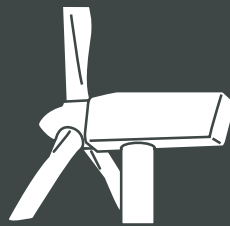


300m

Steel cable length per reel



Compact and easy to
install with just 4 - 6 bolts



Installed inside or outside the nacelle,
onshore and offshore



Maintenance friendly

30+
year

No fixed lifespan



Suitable for all high
structures



Can be operated using just one hand

Mechanical operation

The Evacuator system is fully mechanical and does not require electricity or any user input to operate, guaranteeing its operational reliability in all circumstances.

The descent is fully automatic at a controlled speed of one meter per second.

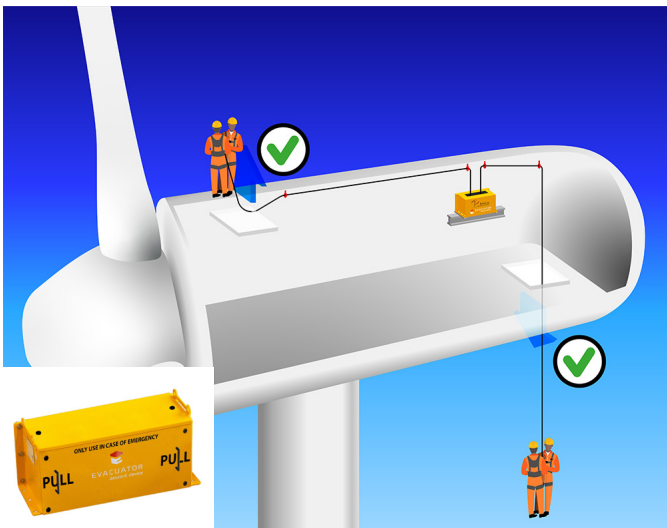


Wind turbine placement

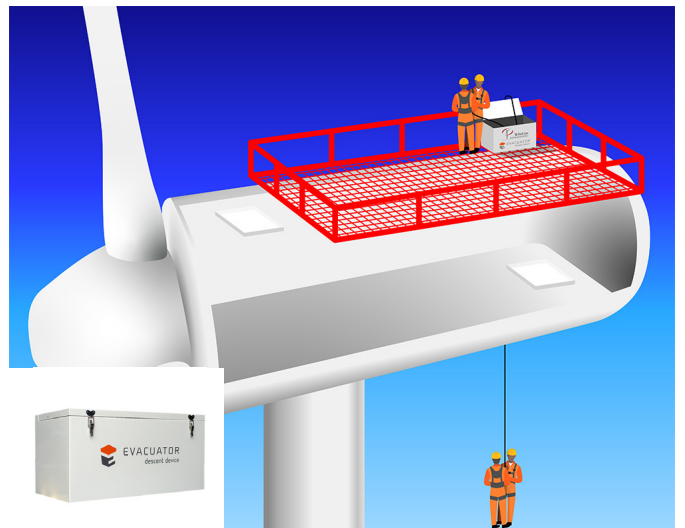
The Evacuator can be installed inside the nacelle, and also on the winching or helideck with the addition of a weatherproof box. Having two independent escape routes equipped with everything you need for a safe descent is embraced by leading experts.

We recommend a set-up which includes two different escape routes inside the nacelle, in addition to outside on the winching or helideck. In the case of the Evacuator E165 model, it is possible to utilise two separate evacuation routes simultaneously due to the integration of two reels which work independently from each other.

Inside the nacelle



Outside the nacelle



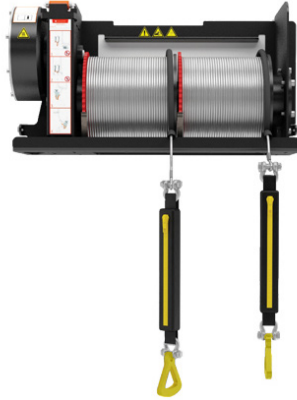
THREE EVACUATOR MODELS AVAILABLE

E50



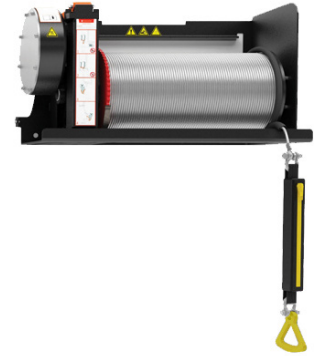
Operating Height:	6-50 meters
Weight per Cable:	282 kg
Number of Cables	4

E165



Operating Height:	6-165 meters
Weight per Cable:	282 kg
Number of Cables	2

E300



Operating Height:	6-300 meters
Weight per Cable:	282 kg
Number of Cables	1

Installation

The solid surface where the Evacuator is going to be installed must be at least in compliance with the European Standard for Steel Constructions EN1090 and Eurocode3 class CC3 safety factor 1.65. This is the highest Class and also the highest safety factor within the European Standard for steel constructions.



Inside the nacelle:

The Evacuator can be installed wherever space can be afforded; with guiding hooks and a Bowden cable sheath guiding the cable and yellow attachment hook to multiple escape hatches if required.



Outside the nacelle:

The Evacuator can be attached anywhere on the helideck of larger turbines and safely stored in an offshore certified weatherproof box.

Capacity

The Evacuator utilises a user-friendly 'click on and go' mechanism. Each steel cable allows for multiple technicians to descend at once, providing their combined weight does not exceed 282kg on each cable. It is also available in three models based on structure heights of 50m, 165m and 300m. To have the capacity to evacuate at least four individuals at once, the E165 Evacuator model incorporates two independently functioning reels which can be used at the same time. Each reel is capable of safely descending 282kg, at least two evacuees per reel based on the standard maximum technician weight of <140kg.

Care and maintenance

There is no fixed lifespan, as long as the Evacuator passes the annual inspection by a certified technician. Once you have completed authorised training, the annual inspection can be done by your team for operational efficiency. The same applies to installation. The inspection itself can be completed within 15 minutes.

Training

We can support your training requirements on a global scale. Special Evacuator training systems are also available which are designed for multiple descents up to 300 times with full weight.

Did you know...

In the wind industry the weight of 'one person' is classified as 140kg. However, in other industries the weight could be classified as 100kg or less.



4 STEPS SAFETY IS WITHIN YOUR REACH

1



Go to the escape hatch

2



Secure your harness on to the yellow hook of the Evacuator

3



Open escape hatch

4



Start the descent

Associated abandonment equipment

Once an Evacuator descent has been started it cannot be stopped until the reel is unweighted. Escape over water presents additional safety concerns and the wind direction at the time of evacuation will determine whether your technician lands on the transition piece (TP) - or descends directly into the water.

Sudden immersion can lead to cold water shock and hypothermia in cases of prolonged exposure. As such, we advise that additional personal protective equipment should be worn during the escape.

A separate weatherproof box can be supplied alongside the Evacuator containing essential equipment such as immersion suits, lifejackets, emergency personal location beacons, and even a liferaft.

IS ROPE BASED DESCENT AT THE END OF ITS TETHER?



The Evacuator and Rope Based Descent systems (RBDs) are two very different solutions, to two very different scenarios. RBDs are a manually operated system and are perfectly engineered for maintenance scenarios and rescue missions where time is not a critical factor. However, the complicated setup and operation of RBDs, presents a significant risk of limiting the chance of an effective and timely escape.

As opposed to RBDs, the Evacuator provides;

- Full compliance with European Safety Standard for wind turbines (EN 50308), which requires all descent devices to be fire proof.
- Lower costs of ownership based on longevity of product lifespan (30+ years for Evacuator vs. 10 years for RBDs)
- Time saving during escape as the Evacuator is pre-assembled at the escape hatches and no tools are required.
- Substantially reduced panic due to the fast, instinctively simple and automatic escape procedure.



APPROVALS

Certification EN341, in compliance ANSI Z359/CSA Z259



WIND TURBINES

The Evacuator gives compliance with EN50308 4.4.2. Wind turbines- protective measures 'the descent system has to be fireproof enough to allow escape from the nacelle to the ground in the event of fire, it shall be suitable for the number of persons to be evacuated'.

In addition, the Evacuator brings adherence to the UK Offshore Safety Directive Regulator/HSE-Offshore Emergency Response Inspection Guide, Appendix 8: MEANS OF ESCAPE, PFEER ACoP paragraph 219 and 220.

'Dutyholders should have selected means of escape based on their contribution to reducing the risks of those who may have to escape from the installation to as low as reasonably practicable (ALARP)'

Ordering Information

PRODUCTS	
Product Number	Product Name
009089	Evacuator 50 m
009709	Evacuator 165 m
009710	Evacuator 300 m
54005006	Evacuator LHS
54005005	Evacuator RHS
009711	Evacuator Internal Box 1
009712	Evacuator Internal Box 2
009713	Evacuator Internal Box 3
009715	Training Evacuator

Accessories

Product Number	Product Name
009001	Test Tool
009714	Guiding Bracket

GET IN TOUCH

Partnering together to take safety to new heights

We can provide the full safety and survival solutions for your offshore turbines.

Together, we can coordinate turbine visits to determine the most appropriate escape routes and installation options for the Evacuator.



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Eugène Verstegen

Co-owner of Evacuator Worldwide,

Co-inventor of the Evacuator

SCAN ME

For more information or to speak to our team.





GET IN TOUCH

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