

# Critical Component Protector

An innovative, cost effective solution used to protect sensitive Delta modules and power invertors in the Wind Turbine Industry, and enable technicians to hoist equipment to the top of wind turbines securely and safely.



  
**WINDFARM**  
**WORKSAFE**





## Protecting sensitive delta modules and power inverters

**Damage caused to sensitive equipment during hoisting and installation amounts to millions of Euros in write-offs and warranty charges every year.**

The critical component protector soft bag from Workplace Worksafe has already saved the industry an estimated €30 million in damaged or destroyed power modules resulting from being dropped, knocked or simply mishandled on the way to the top of the turbine. The fact that the average power module in a 3.6MW turbine costs in the region of €15,000, and that 8 are needed in this size of turbine, should not be missed by those responsible for minimising installation costs.

As the offshore industry expands and larger and larger turbines are installed, more power modules will be needed in each turbine and at greater cost. It makes financial sense to invest in the critical component protector Deltasafe bag from Workplace Worksafe and ensure that damage and loss of these sensitive devices is kept to a minimum.



A high risk job  
made safer by the  
Deltasafe bag

During turbine installation, lifting is a major area of concern. The number of lifts conducted on a turbine site, whether during installation or O&M, is extremely high. Lifting is a main focus area for safety within the wind industry.

Employers are required to take appropriate measures, or use the appropriate means, in particular when using mechanical equipment, in order to avoid the need for the manual handling of loads by workers.

Wherever the need for manual handling of loads by workers cannot be avoided, the employer is required to make such handling as safe as possible and assess, in advance if possible, the health and safety conditions of the type of work involved, and in particular examine the characteristics of loads, considering the characteristics of the working environment and the requirements of the activity.





# Major Benefits of using the Deltasafe bag

- It protects the turbine as well as the component
- It conforms to packaging requirements for Stacks
- It saves 8 Man hours per offshore turbine
- It eliminates 90% of manual handling
- Saves millions on Warranty costs
- Saves up to €125,000 per replacement tower on offshore turbines.

[www.criticalcomponentprotection.com](http://www.criticalcomponentprotection.com)



## Workplace Worksafe Ltd

Unit 1E, Lon Parcwr Industrial Estate, Ruthin, Denbigshire, LL15 1LT Wales, United Kingdom

Tel: +44 (0) 1824 709500

[www.workplace-worksafe.co.uk](http://www.workplace-worksafe.co.uk) [www.criticalcomponentprotection.com](http://www.criticalcomponentprotection.com)