



James Fisher
Fornybar Energi

In conjunction with Scan Tech AS



Rotos 360

Expertise matters

Our story

A firm belief in
renewable energy

James Fisher Fornybar Energi has been established, in conjunction with Scan Tech AS, to provide services to the Norwegian renewable industry. Since 1995 Scan Tech has been one of Norway's leading providers of Engineering, Design, Maintenance and Installation services to the Energy sector.

Rotos 360 exists for one reason – to reduce the levelised cost of wind energy.

On and offshore projects present extremely challenging and harsh environments, for both people and technology.

We use tried and tested solutions. It has become our mission to align our services with the needs of our customers, providing new technology led solutions and a professional service.



Service without limits

Blade repairs around the clock

Our customers are at the core of our business and, as turbines are constructed 24/7, we strive to deliver safety and quality around the clock.

Rotos 360 was the first company to deploy a suspended working platform commercially from a vessel to an offshore wind structure and we have been leading the way in specialist blade repair ever since.

To ensure the highest level of safety, quality and minimum levels of turbine downtime, we select the most appropriate access method. Utilising all methods of access, including suspended working platforms, rope access and MEWPs, our technicians are able to access all areas of turbine blade surfaces, from root to tip.

Rotos 360 is part of James Fisher Renewables, who provides comprehensive and trusted offshore renewable solutions dedicated to the technical and operational aspects of construction preparation, and specialist operation and maintenance.

Complementing this efficiency, we add highly experienced technicians to the operational mix – people with experience gained all across the UK and Europe supporting installation, inspection, repair and maintenance projects for some of the leading names in the wind industry.



Fastest UV curing method



24/7 repair service



Bespoke reporting/documentation

Minimising repair weather downtime

Innovative UV repair technology

Working from either our time-efficient suspended working platform or rope access, Rotos 360 is the wind energy industry's most solution-driven blade repair specialist.

Our research and development team has helped pioneered the Gurit Renevo™ resin system and the use of ultra-violet (UV) cured blade repair technologies to drive down the cost of wind energy for our customers. This technology has clear advantages for the repair of wind turbine blades, including:

- Faster repair of damages
- Can be applied at colder temperatures (5-30 degrees)
- Clean materials, i.e. no toxic vapours emitted during curing

This means we can complete a typical UV cured blade repair considerably faster than a standard method, significantly reducing turbine downtime and associated costs. A fact we have demonstrated across some of the largest wind farms in the world.

The latest Rotos 360 innovation, minimising the cost of wind energy, is our innovative blade bubble repair technology.

The solution is an easy to deploy, inexpensive solution to combat environmental and time restrictions. This means Rotos 360 can cover more repairs in a season, minimising your asset's weather downtime.

Ensuring the highest levels of repair quality, the blade bubble controls the temperature and humidity of the working environment.

We provide a range of sizes and types to meet the requirements of all wind turbines and repair types, including standard, leading edge, trailing edge, tip-wide and large repairs.







Leading Edge Protection (LEP)

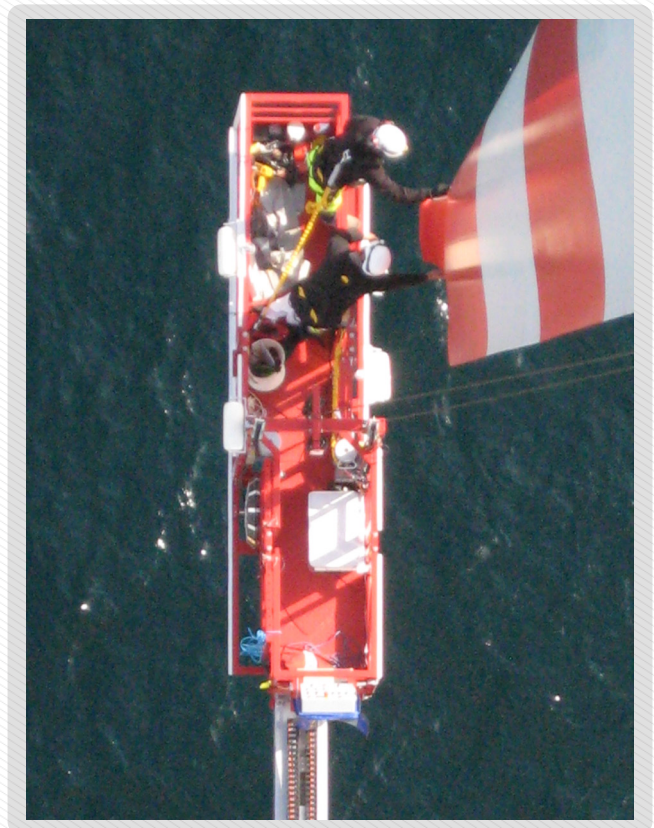
Leading edge erosion is increasingly becoming problematic as wind turbines are installed in remote locations and face more adverse environmental conditions. As the industry progresses and rotor blades increase in size the susceptibility to LE erosion increases.

Applying LEP to your wind turbine blades can mitigate this risk and reduce operating costs, improving the levelised cost of energy, and increase blade serviceability, along with reducing fatigue on mechanical components.

Rotos 360 has experience in applying all current LEP offerings across the majority of manufacturers both on and offshore, utilising Rope access, platform and MEWP access methods whilst working to strict QA/QC processes ensuring the highest standard of installation.

Rotos 360 works closely with Polytech and specialises in the installation of their ELLE™ Everlasting Leading Edge Protection, which is designed to protect for a lifetime.

The ELLE™ solution consists of pre-cast sections made of robust yet soft and flexible polyurethane shells. The shell's surface is designed and dimensioned to absorb the kinetic energy from rain, hail, and airborne particles. As such, the shell provides optimal protection for the rigid fiberglass surface of the blade. The shell pattern is custom-made for each individual blade to ensure an optimal fit. When it comes to lasting leading edge protection, nobody does it better than ELLE™.



Safety record 2021



140,778
operational
man-hours



0
dangerous
occurrences



0
improvement /
prohibition notices



0
lost time
injuries



0
fatalities



0
environmental
incidents



0
occupational
illnesses



Declining
incident frequency
year on year





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