

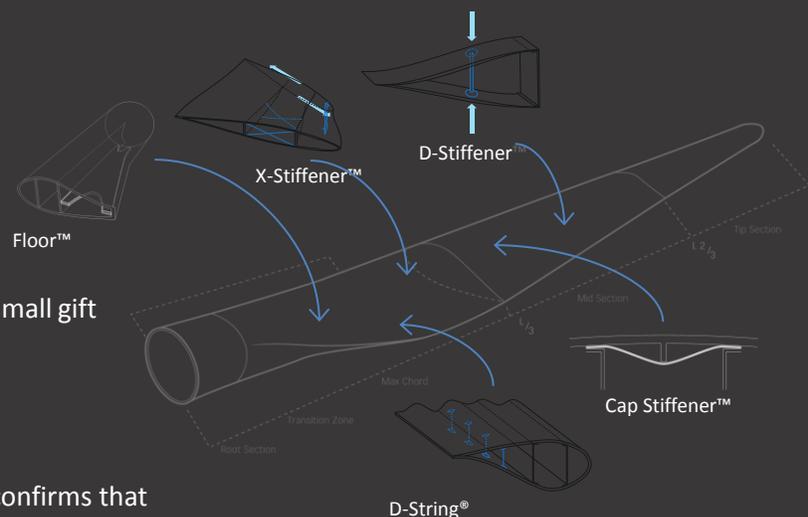
News from Bladena

08 December 2017

Dear Subscriber

Christmas and New Year is just around the corner. As a small gift to you we have some great news:

- D-String® celebrates 5 years of operation.
- Bladena tests blade with combined loading which confirms that D-stiffener™ avoids cracks on the trailing edge panels.
- Bladena has turned 6 years.



Graphics by Kirt-Thomsen

Latest news:

D-String® celebrates 5 years of operation.

D-String® is the first commercial technology that Bladena installed on an operating turbine, V80 blade in January 2013. With many years of thorough testing at DTU (Technical University of Denmark) in both static and dynamic tests, the D-String® is proving its quality as it today, 5 years later, still operates with full effect. Since 2013 numerous of other blades and blade types in operation have been retrofitted with the D-String® technology.

Find Mølholt Jensen, CTO of Bladena, says: "D-String® is not only the result of a product developed with the aim to reduce blade damages, but also a result of Bladena's hard work trying to convince the wind industry that the certification requirements of today's design of blades needs to be improved, if we want to minimize the increasing blade failures that happens all around the world and keep focus on reducing LCOE.

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The positive development Bladena is experiencing commercially originates from the first drawings and tests of

the D-String® to several installations and customer utilizations worldwide. Today, Bladena has a wide product portfolio, supporting the industry within the full supply chain, from blade design through O&M to lifetime extension of blades. In general, we are experiencing a huge change in the market when it comes to increasing knowledge and focus on blades including rethinking repair methods and design of blades.”



Bladena tests blade with combined loading which confirms that D-Stiffener™ avoids cracks on the trailing edge panels.

As the awareness about blade failures caused by combined loads increases, the need for changing blade design standards and certification has become a very discussed topic. As part of the EUDP RATZ project, Bladena did a full-scale test with combined loading at BLAEST on a 34m blade. Also, the structural impact of Bladena’s D-Stiffener™ was tested and the expected increase in buckling capacity of the trailing edge area was demonstrated. [Read more](#)



Bladena has turned 6 years.

2017 has been an important year for the development of Bladena. With Anders Sjøe-Jensen as CEO and the new Bladena 2.0 Strategy, the company has moves into a new position in the wind market. The recognition of Bladena’s technologies and services has increased rapidly due to the new strategic position and the potential for expanding the market position in 2018 is in sight.

Also, the D-Stiffener™ has increased its commercial traction in both the WTO and OEM market. The development of Bladena’s other technologies such as X-Stiffener™ and the Floor™ is moving forward with the aim to commercialize these as well in the nearest future.

Within the EUDP RATZ project Bladena has increased the focus on Owners Requirements and the WTO network called The Blade Group Network. From September 2017, there were approx. 20 wind turbine owners from Europe listed as members. In only 3 months the number has doubled to include almost 40 wind turbine owners from all around the world – and the number is steadily increasing.

Therefore, 2017 has been a busy year with much success and now time has come to look forward to a new year in 2018.

We at Bladena wish you Merry Christmas and a Happy New Year and look forward to doing more business with you in 2018.

Read more news on www.bladena.com or click [here](#).

We appreciate your interest in Bladena and if you have any questions please do not hesitate to [contact us](#).

Best wishes,

Bladena