



## Blade Bearing Guard BBG<sup>+</sup>

BBG is an easy to install monitoring system for blade bearings, which monitors wear process, brinelling and crack formation, as well as rupture growth. BBG<sup>+</sup> ensures well-founded decision making reducing your service and operation costs.

### Benefits of BBG<sup>+</sup>

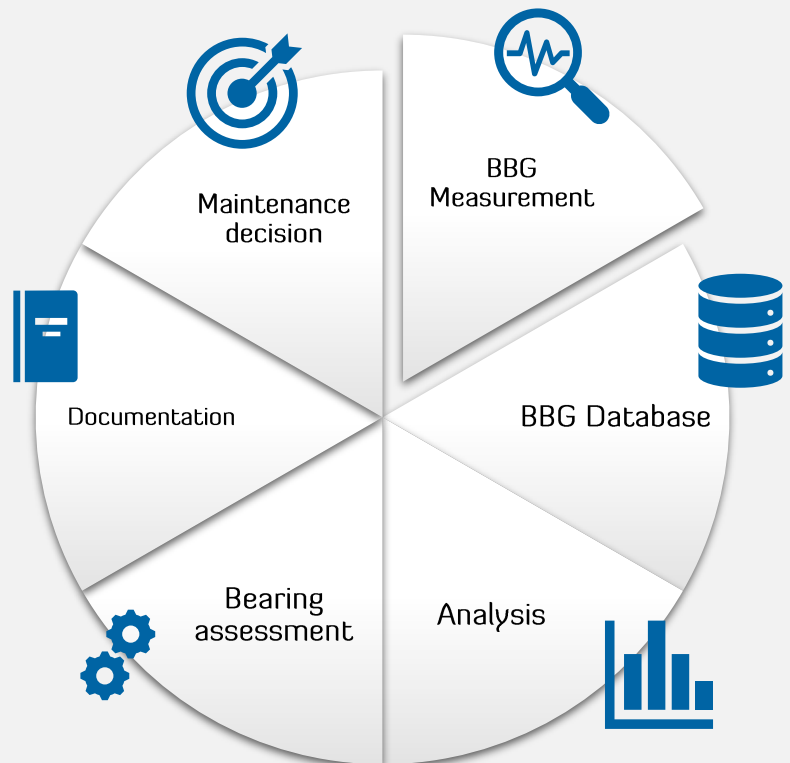
- ❖ Determines right time for bearing exchange
- ❖ Maximal operation time of blade bearings
- ❖ Installation within 2 days possible
- ❖ Adaptable to different turbine types
- ❖ Realtime information about blade bearing conditions on BBG<sup>+</sup> User Platform
- ❖ Enables monitoring of different damages (e.g. cracks, brinelling)



## Why is the monitoring of Blade Bearings necessary?

As blade bearings are getting older it is important to monitor the wear process to guarantee proper functioning of the bearings and the pitch system. It allows for condition evaluation for further operation after 20 years as well as for risk monitoring due to serial damages. BBG<sup>+</sup> enables you to plan your maintenance activities proactively.

- Non-contact measurements for each blade bearing
- Measurement with high sampling rate
- Temperature measurement
- Data recording with BBG<sup>+</sup> box and wireless data transmission
- Analyses of measurements by an automatic evaluation tool and by eolotec experts
- Customized reports according to monitoring level



Turbine Data is gathered using precise inductive distance measurement (BBG<sup>+</sup>D) and additional polymer optical fibre (POF) laser measurement (BBG<sup>+</sup>R), especially developed for rupture analysis. The use of two different sensor types creates a wider field of data and, of course, more data to be interpreted, thus making monitoring the blade bearing status more precise and reliable.

**Do you want to know more about BBG<sup>+</sup> and its installation?  
Please contact us for any further information.**

