

CBE - CRANELESS BEARING EXCHANGE

What is CBE for GE 1.X about?

Replacing damaged main bearings is associated with high costs and long downtimes. Disassembling the entire rotor and drivetrain requires an expensive high-capacity crane, factory refurbishment, and reassembly by crane.

Our CBE Solution

CBE enables crane-less rotor bearing replacement directly on the tower, regardless of weather conditions. The rotor and drive train remain stationary, supported by our specially designed devices. These devices safely transfer all rotor loads to the main frame. Our process allows reuse of all major components, even the bearing housing. Your turbine is back on the grid within 6 days. No pre or post preparation required.

Your benefits using CBE

- 40 % lower exchange costs
- No delays due to bad weather conditions
- No preparation of the crane area and access road
- Blades remain on hub, no damage possible
- Fast availability → short downtime
- Service from a single source



Bearings provided by **SCHAEFFLER**

www.eolotec.com



CBE - CRANELESS BEARING EXCHANGE

Tested and proven design

- Developed in cooperation with the OEM
- Advanced asymmetric bearing design, provided by Schaeffler
- Load capacity equal to standard rotor bearings
- Adopted and improved sealing system
- New, permanent greasing system
- FE-Validation of all Tools
- Multiple tested assembly process
- Test bearing after 4 years of use without any damage

Fitting GE Turbines

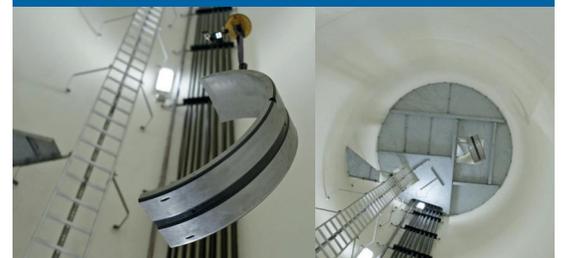
- GE 1.5 platform from GE1.5 SL up to GE 1.85
 - Rotor diameter of 77 up to 82.5m
 - Casted main frame and cylindrical rotor lock
- Design will be adapted for other turbines soon!**



...our simple, clever version



the way you are used to...



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