

## ***Interactive comment on “Constructing Fast and Representative Analytical Models of Wind Turbine Main-Bearings” by James Stirling et al.***

**James Stirling et al.**

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Dear Charlotte,

Thank you for handling this submission and supporting the review process for this work.

It was a pleasure to see that both reviewers had studied the paper in detail and given valuable feedback and suggestions. Their comments have allowed us to understand where the manuscript needed tightening up and the narrative and goals made more clear. In addition, there were some parts of the modelling and analysis that needed more detail to ensure clarity and reproducibility.

Work is currently underway to address all the comments by both reviewers and detailed responses to each has been included alongside our plan to implement the suggested

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changes in the ‘Response to reviewer’ documents which we have also uploaded.

Main updates which are being undertaken are: improved clarity regarding the goals and narrative of this paper, expanded introduction to include a broader discussion of related work, disclosure of dimensions and parameters used in models, improved descriptions of the FE models and mesh sizing procedure, new shaft thickness sensitivity analysis and the addition of a table of numerical model outputs for given inputs to aid reproducibility.

If any further information is required regarding the manuscript discussion and responses, we will be most happy to engage further.

Best regards,

James Stirling

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Interactive comment on Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2020-58>, 2020.