



eolotec
bearing technology



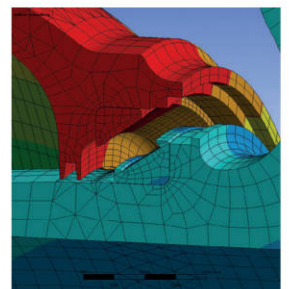
Premesy

The first preload measurement system for assembly and continues condition monitoring

Benefits of Premesy

- Precise adjustment of bearing preload
- Monitoring and documentation of assembly process
- Accurate measurement of bearing preload after assembly
- Condition monitoring of bearing preload
- Validation of FEM calculation results
- System is adopted to customers' needs

Predictable and reliable bearing system



Premesy

Why is it important to adjust and know exactly the real bearing preload?

The bearing preload is one of the most important parameters in bearing systems. On the one hand, if the preload is too high, the rated life decreases significantly and in extreme cases the bearings can overheat. On the other hand, if preload is too low the smooth kinematic behavior of the rolling elements can be interrupted which will lead to early failures.

An optimal preload, however, is a guarantee for a reliable function.

How does Premesy work?

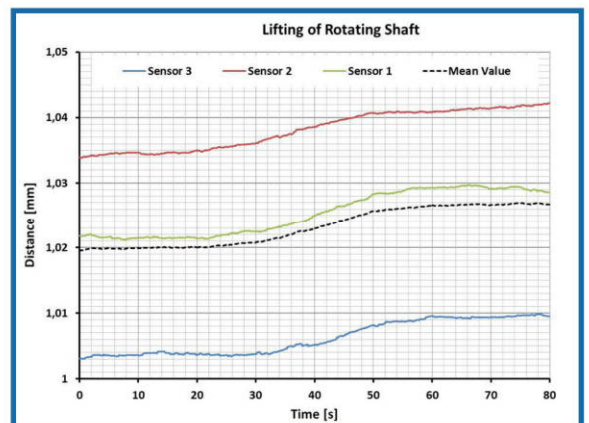
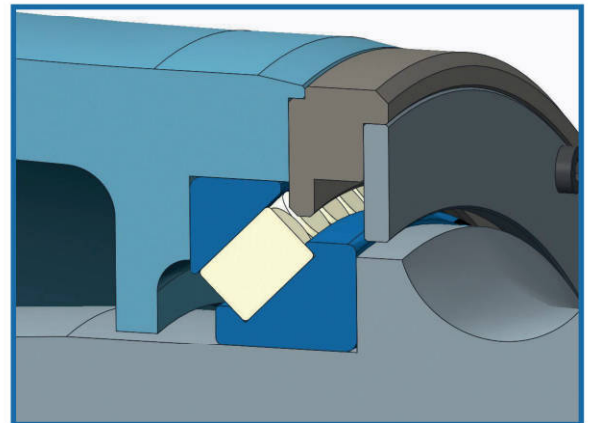
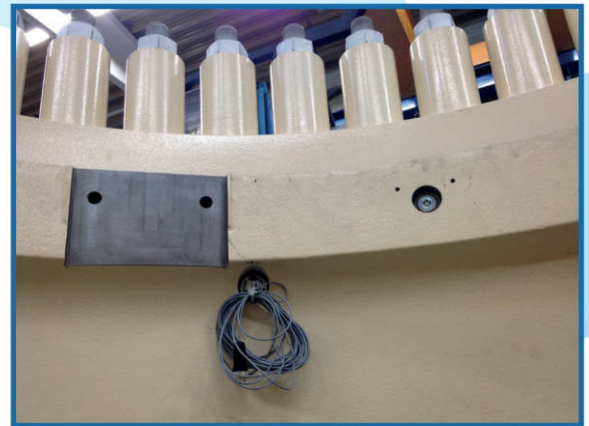
It is state of the art to calculate the optimal preload by FEM, especially for large bearing arrangements. Under preload the bearing roller contacts deflect while the surrounding structure is elastically deformed. That leads to a shifting between the bearing rings which is a result of the FEM calculation. This shift is precisely measured with Premesy. It's currently the only existing way to measure the existing preload.

What types of Premesy are available?

- Measuring and adopting bearing preload during assembly process
- Measurements on prototypes
- Condition monitoring of preload for series

You want to know more about Premesy and how it can improve the reliability of your bearing application?

Please contact us....



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