

## *Certification Report*

### ***ITH Round Nuts Type RMS/RMZ***

Report No.: 72073

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### **Germanischer Lloyd WindEnergie GmbH**

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## **1 Documentation**

- "Gegenüberstellung DIN Sechskantmutter/Scheibe zu ITH Rundmuttern RMS/RMZ", Druckschrift 09.00233

## **2 Applied Standards**

The evaluation of the tower was based on the

- DIN 6914 "Hexagon bolts with large widths across flats for high tensile structural bolting", October 1989
- DIN 6915 "Hexagon nuts with large widths across flats for high tensile structural bolting", October 1989
- DIN 6916 "Round washers for high tensile structural bolting", October 1989
- Peiner Werksnorm WN 83120-1 "Sechskantschrauben-Garnituren mit großer Schlüsselweite, HV-Schrauben (in Anlehnung an DIN 6914)", Revision 1, dated 11.09.2000
- Peiner Werksnorm WN 83120-2 "Sechskantschrauben-Garnituren mit großer Schlüsselweite, HV-Muttern (in Anlehnung an DIN 6915)", Revision 1, dated 11.09.2000
- Peiner Werksnorm WN 83120-3 "Sechskantschrauben-Garnituren mit großer Schlüsselweite, HV-Scheiben (in Anlehnung an DIN 6916)", Revision 1, dated 11.09.2000

## **3 Extent of Examination**

The design of the ITH round nuts type RMS/RMZ as described in the ITH document 09.00233 is checked by independent analysis applying the regulations as stated under item 2.

## **4 Remarks of Examination**

The ITH round nuts type RMS/RMZ have to fulfill the requirements of DIN 6915 and DIN 6916 with respect to the geometry of the thread and the material properties and chemical composition.

## **5 Final Remarks**

The design of the ITH round nuts type RMS/RMZ fulfils the requirements according to the applied standards as mentioned under item 2. If the remarks will be observed, the ITH round nuts type RMS/RMZ can be used instead of DIN 6915 nuts and DIN 6916 washers for high tensile structural boltings.

LKr

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