



© Enercon GmbH

Tooling for the Wind Industry

METAL MOULDS & MANDRELS FOR WIND TURBINE BLADES

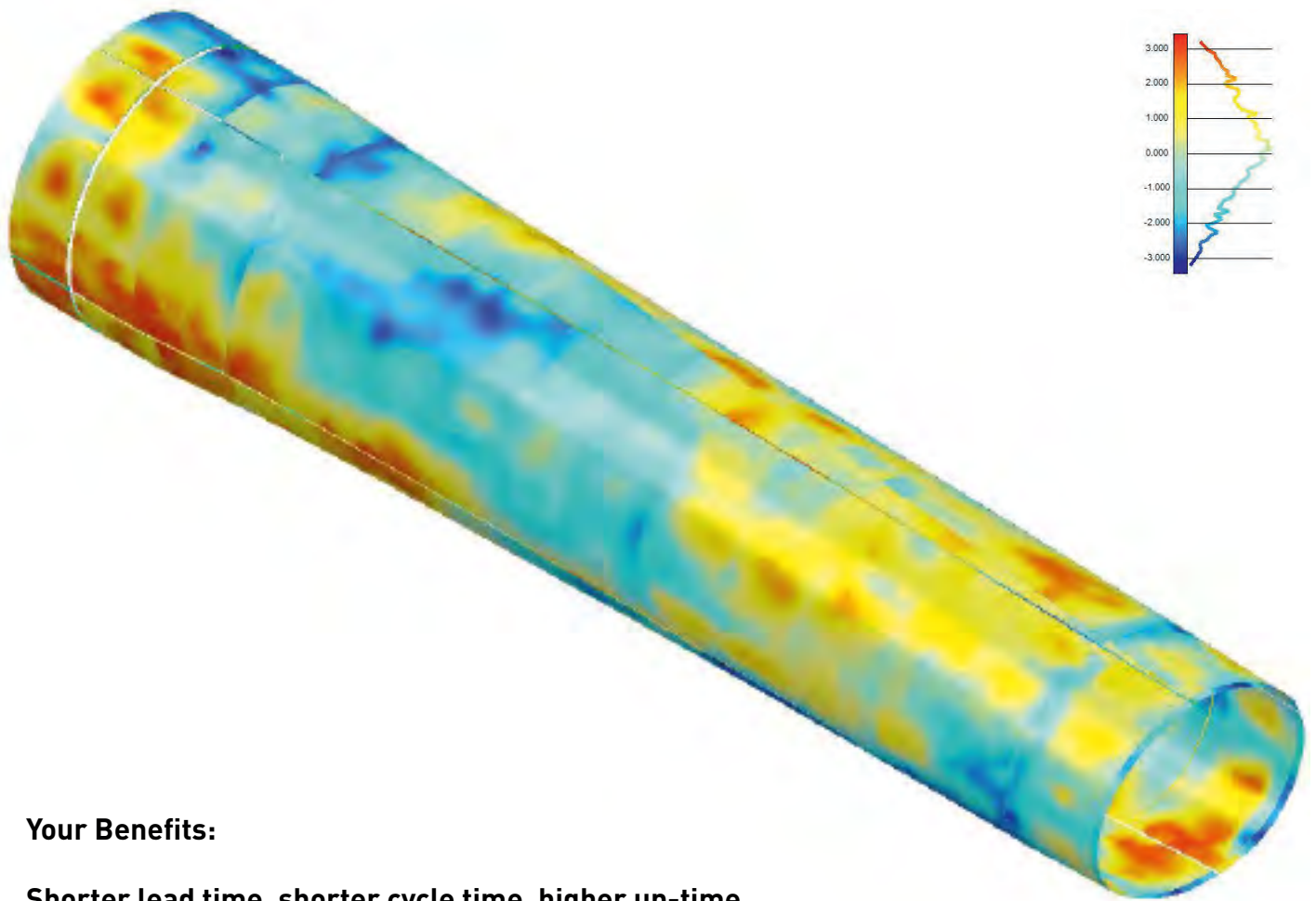
- Lowest cost of ownership
- Very short lead time, no plug required
- Long stand times and low operating costs OPEX
- Mandrels with 3D shaped metal surface
- Material: steel, stainless steel, INVAR, aluminium, etc.
- Proven in-house process assuring excellent quality, vacuum tightness and on-time worldwide delivery
- Recyclable materials
- Global logistics in place
- ISO 9001 certified



© Enercon GmbH

The company

Ostseestaal is a supplier of medium and large moulds, fiber placement mandrels and lay-up tools for the wind industry. As your reliable partner we support the whole process, from the very first ideas to the installation and commissioning. From the design phase to a Turn Key delivery. Requested moulds will be equipped with different heating- and cooling-systems, vacuum units, electrical automation and whatever might be required for your needs. Sophisticated manufacturing methods induce shortest lead times and a minimized "Time to Market" of your new product. A proven in-house process assures highest quality, vacuum tightness and worldwide on-time delivery.

**Your Benefits:**

- **Shorter lead time, shorter cycle time, higher up-time**
- "Time to Market" for new Blades will be shortened significantly
- Predictable, reliable and shorter Cycle Times are achievable
- High accuracy 3D shaped metal skinplates make the moulds durable, robust and long-lasting
- 3D shaped metal surface increases the up-time to almost unlimited hours of operation & shorter cycle times
- 3D shaped skinplates are made from one segment (if possible) which reduces welding seams, and results in less potential risk of leakage
- Full in-house NDT testing prior delivery
- Perfect logistic conditions for just-in-time-delivery worldwide by road, sea or air transport
- Engineering support and cooperation
- Surface treatment
- Metal tools are recyclable as metal scrap is valuable