

Unique repair control



Intelligent control system for curing of blade repair

To ensure correct overhaul and maintenance of wind turbines and their blades and to reduce maintenance downtime, LUND & SØRENSEN A/S has developed and designed a solution that permits the blades to remain warm during the repair period.

The concept is based on a portable intelligent controller that is combined with heating jackets.

The unit named PHBC-6 (Portable Heating Blanket Controller), controls the temperature via built-in sensors in the heating jacket.

At the same time, the PHBC-6 also measures and logs the ambient temperature and humidity.

All management and control of temperature, data, alarms, trend curves, and programmed planning time is handled via a handheld tablet.

The screen layout involves a step-by-step solution, with each step requiring confirmation before proceeding to the next level. This is to ensure that the operators are aware of what needs to be done in each step and what needs to be logged before proceeding to the next level.

PHBC-6 is developed in close cooperation with some of the most skilled composite engineers in the turbine blade maintenance business and the manufacturer of heating blankets.

- Perfect curing
- Full curing support
- The right TG value instantly
- Best repair quality
- Automatic curing control





The idea behind the PHBC-6

- To secure a proper repair each time, without any failures like too hot or too cold curing.
- To higher the quality of repairs and curing by reaching the correct Tg value each time in the first go.
- To avoid mistakes of monitoring curing temperatures over time.
- To decrease down time for the turbine, due to the fact, that repairs are perfect every time.
- To be able to start up, more than one repair job per turbine per day.
- To be able to supply an automatically generated and full documented report to the customer.
- To let the PHBC-6 work, as long as the maintenance people do something else.
- To monitor and control the curing process from another place.
- To communicate wireless between operator and PHBC-6.
- To reduce and save time in most aspects of the repair / curing.
- To be more reliable in the repair process



Antenna for serial communication between several PHBC units.



EINPART

1205 Spring View Ln.
Plano, TX 75075 USA

Tel. +1 972 633 2580

einpart@einpart.com
www.einpart.com



L&S
INNOTEK®
Innovation & Teknologi