

# WIND

## POWER APPLICATIONS



### SHAFT ALIGNMENT

*Alignment of generator and gearbox on wind turbines*

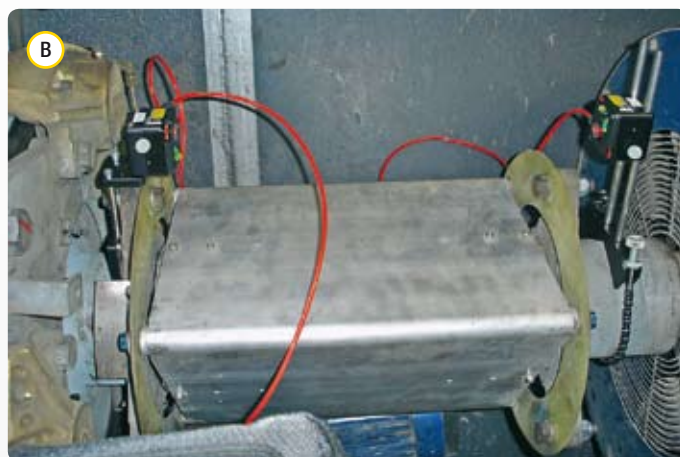
**EASY-LASER<sup>®</sup>**



**FOR ALL MAKES AND SIZES**

Large forces are in action in a wind turbine. The safety of the maintenance technicians is therefore of the utmost importance. With the Easy-Laser® shaft alignment system the generator and gearbox can be aligned with the coupling dismantled and the brake locked. The system pictured is designed especially for Vestas, and fits all their turbine sizes. With our own development department and machine shop we can produce a customer adapted system very quickly, and design it so one measurement system fits all sizes of turbine. The measurement programs are easy to learn and to use, and there are numerous options for documenting and saving the result of the work (e.g. to printer or PC).

- A. The coupling brackets are designed to fit all sizes. This means less equipment to carry around and to bring up the towers.
- B. With standard shaft brackets you can align with the coupling still attached, if needed.
- C. Another coupling design. Measuring units mounted with magnet bases.
- D. We also provide equipment for other kinds of generator design. This could for example be a system for dynamic movement measurement.



**WARRANTIES AND SERVICE CONCEPT**



The Easy-Laser® systems have evolved over more than 25 years, through field experience in solving measurement and alignment problems. The systems come with a 2 year limited warranty. The manufacturing and quality systems are ISO9001 approved. If an incident should occur, our service department normally handles repairs and calibrations within five working days. This combination makes Easy-Laser® a reliable partner for your business.

**INCLUDED IN A TYPICAL SYSTEM**

- 1 Display unit
- 2 Measuring units (laser/detector in one housing)
- 1 Bracket for generator flange
- 1 Bracket for gearbox flange
- 1 Distance gauge
- 1 Documentation software for PC
- 1 Set of plunges and attachment accessories
- 2 Cables
- 1 Extension cable
- 1 Printer
- 1 Carrying case. Rugged aluminium framed case.



Example of a wind turbine shaft alignment system (Vestas).



Display unit and printer in upper compartment.



Bracket and plunges for all sizes of turbines.

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