WindTM™

Torque Monitoring System

AeroTorque now offers a system to accurately monitor the torque on your turbine's drive train. The WindTM™ Torque Monitoring System mounts to your main shaft via high powered magnets, allowing for quick mounting of hardware, with less downtime.

The system has the capability of measuring and storing the 100 largest events both forward and reverse torque values measured at the main shaft, throughout the logging period.

A second channel is utilized for shaft speed as well, to allow for an accurate gauge of ambient conditions at the turbine at time of an event.

Data is retrieved over a wireless Bluetooth connection and is accessed remotely over cellular networks or by removable data card.

This system, when combined with the WindTC™ torque limiter, allows for a before and after view of the effectiveness of our torque control.

Don't take our word for it, test it on YOUR turbine!

Installation of strain gauges - installs quickly

Completed mounting - ready for startup

Shown with optional extra battery pack

AeroTorque • 1441 Wolf Creek Trail, P.O. Box 305, Sharon Center, OH USA 44274-0305
Visit us on the Internet: www.aerotorque.com
phone: 330-590-8105 • fax: 330-239-2012 • info@aerotorque.com

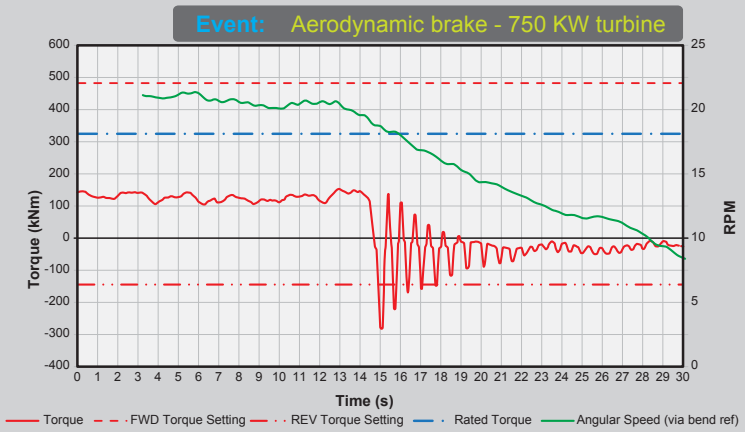
Effective Date: March, 2014

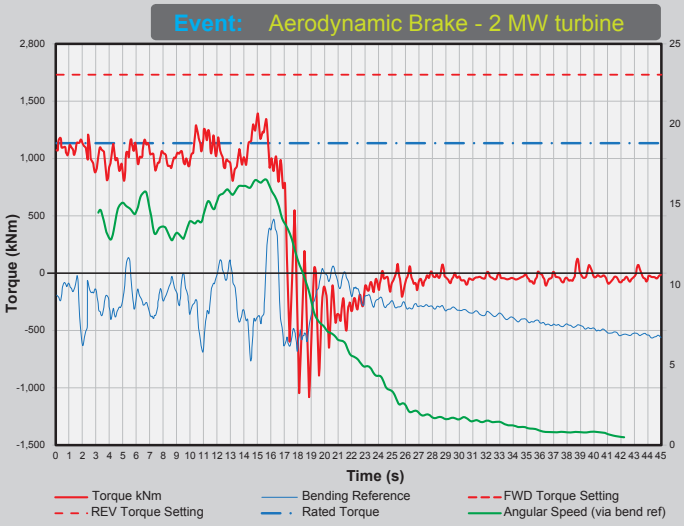
WINDTM™

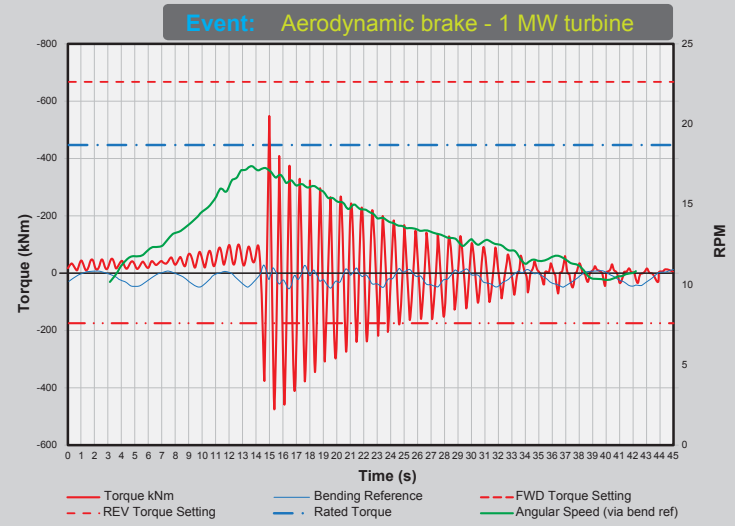
Sample Results From Real-World Testing:

Actual results from Wind Turbine testing

This graph shows the torque reversals on a shaft during an aero-braking event and the rotational speed of the shaft.



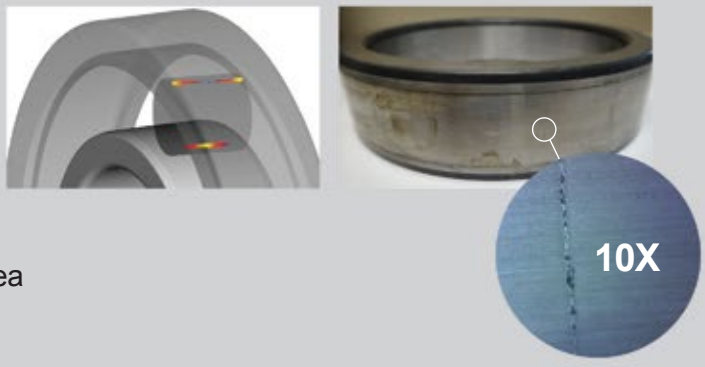




The Link Between Impact Loads and Axial Cracking

Impact loading on the skewed rollers creates high stress and high strain rates just below the surface of the inner raceway.

These impacts can create super hard white etch area (WEA) inclusions that will propagate axial cracks.



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