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Testing system for wind power

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SAKOR Technologies, Inc., Okemos, Mich., launched AccuDyne AC Dynamometer system for wind power testing applications. The system can be used by multiple engineering groups to test and verify designs, as well as for quality control testing after manufacturing. It can be used to test both active and passive wind power driveline components— turbines and their associated blade pitch control motors, generators, and wind-sensing devices and motors, and transmissions. The system can also be used for testing water coolant pumps and other ancillary components.

In addition to independent component testing, it can also be used to test groups of components simultaneously to see how they work together. For those conducting research and development, the AccuDyne can be used to simulate the generator itself during early design stages, before a physical generator or gear box unit exists.

With the AccuDyne, wind power test centers need only one dynamometer to test a wide range of model sizes and verify design specifications for multiple product categories and driveline mechanisms. The system is also perfect for research and development groups working on new turbine and generator designs.

The AccuDyne comes packaged with the DynoLab EM test cell control system, making it a complete turnkey system to measure all mechanical and electrical wind power system components and simulate real world conditions in a fully automated test system.

Available in sizes ranging from 3kW-10 MW, AccuDyne dynamometers are appropriate for all wind power rotational testing needs. Modern vector drive technology allows the AccuDyne system to provide true 4-quadrant capability, with completely seamless crossover between motoring and loading modes. It also offers the most precise speed and torque control available, especially in low speed applications where full torque can be applied all the way to stall (zero speed).

The DynoLAB EM system offers many advanced features, including the ability to simulate inertia to test a wide range of large and small loads, torque pulse simulation for simulating components that exhibit cogging (such as PM generators), and noise, vibration, and harshness (NVH) testing.

More information:

SAKOR Technologies Inc.

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