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Sakor Offers Complete Turnkey Test System

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May 20, 2013—Sakor Technologies, Inc. recently announced the availability of its complete testing system for hybrid and [electric vehicles](#) (HEVs). The system features one or more AccuDyne AC motoring dynamometers, a high voltage DC battery simulator, and a DynoLAB PT data acquisition and control system. The complete turnkey testing system can be configured to automate all types of performance, durability, and [quality control](#) testing, including complex in-use and road load simulations for both drivetrain components and [electric motors](#) and drives. The testing system has been used extensively by major HEV manufacturers, including Tesla Motors, UQM Technologies, and Magna Electronics.

AccuDyne dynamometers offer full four-quadrant operation with seamless transition between loading and motoring modes. The high voltage DC battery simulator provides reliable, repeatable power independent of battery charge state. Since the AccuDyne and battery simulator are both fully line-regenerative, the resulting system can recapture most absorbed power and is therefore extremely energy efficient. This feature greatly reduces overall system operating costs. The system is fully automated by Sakor's DynoLAB PT control system, which offers complete automation of all types of test cycles used in performance, durability, and quality control testing. The system can also test high-voltage batteries typically used in HEVs. The testing can include standard charge/discharge cycles, as well as road-load profiles representative of what the battery would see in an actual vehicle under real world road conditions.



The new system takes advantage of Sakor's more than 25 years of experience testing combustion engines and powertrains as well as [electric motors](#). "Our skills and success in [building systems](#) to test combustion engines, powertrains, and electric motors make us unique in the industry," said Randal Beattie, president of Sakor. "In addition, our cost effective technology is extremely "green" in its own right because the energy recaptured during regeneration modes is recycled rather than being rejected as waste heat. This feature greatly reduces energy use and overall system operating costs."

Sakor Technologies

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