Torque Data Collection: How to Achieve Accurate Results

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As the Wind Power Industry matures, OEM's, Owner / Operators and Construction companies are all looking to more accurately collect and maintain their installation and service records. Collecting and maintaining proper records gives companies documentation of the procedures they offer to their customers and allows them to go back and review if any questions arise down the road.

To accurately collect torque data we must first understand the different technologies available on the market. There are two basic types of products on the market - Open Loop and Closed Loop. Open Loop technologies like Hydraulic and Electric Current Controlled tools both employ calculating PSI or voltage Current at the Pump or Controller and guess at the torque results at the socket end of the tools. Closed Loop Technologies, like AIMCO's AcraDyne HT series, utilizes a built in transducer at the working end of the tool to accurately deliver and collect the torque applied at the fastener. Therefore, internally collecting and date / time stamping the torque applied at the fastener not the pump or controller end. You and your customers can be assured the job was done correctly. Once the project is complete, all data collected can be stored in an Excel spread sheet at the touch of a button for future review.