Cross Hole Sonic Logging (CSL) is one of the most popular testing methods to evaluate integrity of drilled shafts. It involves inserting probes – two at a time – in tubes built into the shafts especially for the test. The probes, on spooled cables, are lowered to the bottom of the shafts and pulled back up. As they travel along the shaft, one of the probes emits a sonic wave, and the receiver probe picks it up after it travels through the concrete. The intensity and time of arrival of the wave at the receiver probe is indicative of concrete quality. The test is typically performed in shafts with at least 4 access tubes, but sometimes as many as 10. Test procedures require filling the tubes with water, and testing all possible paths between tubes.

**Pile Dynamics Inc** has solved this problem by designing a Motorized Probe Deployment System (Automated Reels) that works with its CSL testing equipment, the Cross Hole Analyzer. In addition to sparing the testing engineer from constantly handling wet and often cold cables, the Motorized Probe Deployment System keeps the cables neatly organized on the spool, and allows the tester to gather information at a consistent speed (this reduces the possibility of missed data points due to too fast a pull). The system is powered