

# GPS Guidance Systems for Drilling and Pile Driving

## System Benefits:

- Faster Pile and Drill Positioning
- Reduces Risk of Drilling or Driving in Wrong Location
- Increased Safety for Ground Crews and Surveyors
- Provides Rig Operator with Visualization of Rig/Targets
- Centimeter Level GPS Accuracy
- Integrates Well with Existing Trimble Equipment
- Transferrable to Multiple Rigs



**Productivity.** Knowing the precise location and orientation of your rigs saves time in positioning the lead for each shaft or pile target. The rig operator is provided a real time display, information, and instructions to guide and position the rig to the next target. Final position of each target can be saved to “as-built” reports along with achieved accuracy metrics (actual vs. design).

**Risk Management.** Provide redundancy checks with the surveyors on site. The guidance system is tied into site control and reduces the opportunity for human error. Requiring less people on site at the rig, the jobsite becomes a safer environment. Remote access to the rig positioning system can also be integrated allowing project managers to monitor operations from a trailer or office location.



**Reliability.** Depend on precise, rugged, and reliable system components. These systems have been installed and field proven on applications for drilling, pile driving, marine construction, levee reinforcements, dredging, bridge foundations, and more.

**Support.** Measutronics provides the equipment, installation, training, and support to keep your rigs up and running. Our work environment is never “plug and play” and we have found that to professionally supply the gear, we need to be experts at using it. To this end, we offer complete and integrated systems that provide an end user with a single source for their support needs.

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### System Components:

- Trimble GPS Heading Rover**
  - Centimeter Level Positioning
  - Precise Heading Orientation
  - Rugged Design (MIL-STD 810F)
- Trimble Base Station/Radio**
  - Available in 410-470MHz/900MHz
  - Reduced Multipath Antenna
- Inclinometer**
  - Verticality Compensation
- Drill/Pile Depth Sensor (Optional)**
  - Continuous Depth Measurement
- Trimble Construction Software**
  - Provides Sensor Integration
  - Operator Display / Guidance
  - Supports Base Maps
  - Record Completed Shafts / Piles
  - Customizable for Different Rigs
- Ruggedized Tablet Computer**
  - Touch Screen Display
  - Compact Size for Cab Installation
- Operation Manual**
  - Customized Manual for Your Project



For demonstration videos of the Software Interface and System Configuration visit:

<http://measutronics.com/systems/guidance-systems-pile-driver-and-drill-rigs>

Start Here. MEASUTRONICS Finish on Target.