

Hydra-Capsule have built a comprehensive selection of professional and precise monitoring equipment. Using a combination of sophisticated hydraulic jacking systems and monitoring equipment designed and manufactured in-house we have become of the the leading companies within the UK.

All the instrumentation is based on the theory to work as a complete integrated system, hydraulic jack pressure sensors and displacement transducers all working in tandem and programmed from one central operations computer using our specialist software. This enables Hydra-Capsule to offer the 'one-stop' solution, whether it's for hydraulic jacking, temporary propping, distance monitoring or combining all of these as one system.

Hydra-Capsule have developed a number of different types of systems to suit short, medium or long term monitoring applications to measure the effects on structures during and after construction works. Our equipment allows an in-depth assessment and reports to be produced highlighting any underline conditions that could have a serious effect on the project.

Real-time instrumentation, such as, laser levelling, linear displacement transducers, tilt sensors and geodetic total station techniques can be implemented to measure any structures displacements and loads.

All the information is stored within our sophisticated data loggers which extract this data to form trend graphs or other charts. The system can be programmed to activate emergency alarms which notify key personal via SMS messages or emails to their mobile phones.

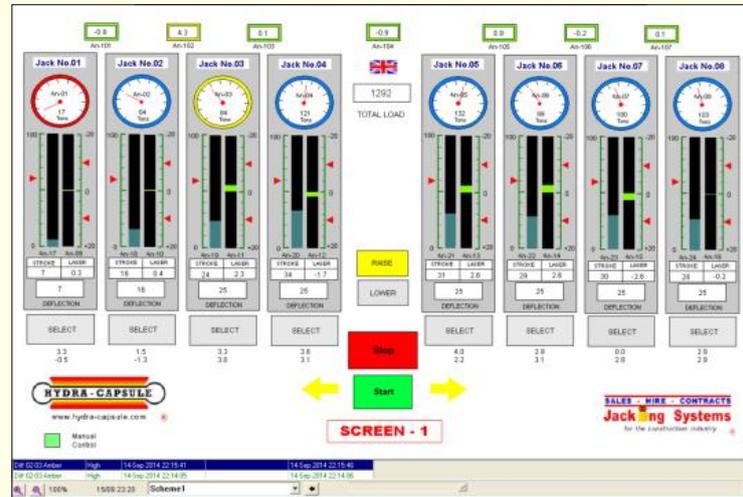
The recorded information is transmitted to a secure server based in Hereford and can be accessed by our customers remotely using a standard internet connection.

Our system is commonly used for monitoring:

- Structural displacements or movements.
- Bridge and sliding bearings.
- Temporary propping or permanent supports.
- Ground or foundation settlements.
- Tunneling effects to other structures.
- Alignment or levelling applications.
- Monitoring of levels during jacking operations.

Benefits our precise level monitoring equipment:

- Real-time monitoring of structural movements.
- Prevents serious structural damage.
- All instruments compatible with our software.
- Remote access to data via the internet.
- Wide range of applications.
- Independent SMS alarm limits.
- Custom built display screens.



Monitoring of Structural Movements