



THE EVOLUTION CONTINUES

The Latest GDSLAB Update Brings Powerful New Tools

BENDER ELEMENTS FULLY INTEGRATED

SEAMLESS WORKFLOWS - NEXT LEVEL CONTROL

LESS MANUAL WORK - MORE RELIABLE DATA

SMARTER TESTING - FASTER RESULTS

Since its launch in 2024, the latest generation of GDSLAB Software has redefined geotechnical testing by combining automation, precision and usability.

2024

Complete re-imagining of geotechnical software.



MARCH 2025

Smarter workflows and customer-driven innovations.



SEPTEMBER 2025

Raising the bar again - faster, smarter, and more connected.

The Journey So Far

When we introduced GDSLAB v2024, it was more than an upgrade, it was a transformation.

Key features included:

- Clean, modern user interface.
- Multi-language support for global labs.
- Real-time graphing of dynamic tests.
- Centralised datastore for safeguarding test data.
- Advanced analysis tools for sharper insights.
- Expanded automation and hardware compatibility.
- Video Handbooks to train and update users quickly.

By March 2025, we built further with:

- Integrated Consolidation Analysis Tool.
- Triaxial K_0 Axial Ramp Control (customer-requested).
- Automated End of Primary Consolidation Detection.
- Upgraded performance: Windows 10/11 support, .NET 8, SciChart v8, optimised plotting.

Languages Supported



What's New?

Automated Bender Element Integration

For the first time, GDSLAB can now trigger GDSBES Bender Element tests automatically at selected points in a test. Results can be viewed directly with full peak-picking and review after the test.

Meaning users carrying out Bender Element Tests can now:

- Configure Bender Element stages just like other modules.
- Access full sweep (for automatic detection of resonance) and stacking functionality from within GDSLAB.
- Enjoy seamless workflows with results stored in the same environment.

This powerful integration comes alongside the launch of GDS' specific Bender Element testing software - GDSBES v2025, which adds:

- A modernised GUI in line with GDSLAB.
- Automatic specimen height transfer from GDSLAB.
- Greater control over file naming and test definitions (period or frequency).
- Signal filtering options.



A library of video tutorials for GDSBES v2025 is available at www.gdsinstruments.com/gdsbes

Other Key Improvements

- One-click Support Archive for faster support.
- CRS Pore Water Pressure Ratio Control for dynamic strain adjustment.
- Customisable Station Tabs for flexible organisation.
- Updated drivers for performance and reliability.
- Datastore notifications for version control.
- Improved recovery of corrupt files.
- Added support for the GDS Infinite Volume Controller.

Built for the Future

With twice-yearly updates shaped by customer feedback, GDSLAB continues to set the standard in geotechnical testing.

- + Faster, more intuitive workflows
- + Deeper integration with hardware
- + Smarter automation to reduce errors
- + Continuous improvement driven by users



Upgrade today and experience the future of geotechnical testing.

Visit: www.gdsinstruments.com/gdslab

