



GDSLAB 2025

Smarter, Faster and Packed with New Innovations



A recap of our new software launch in 2024

GDS Instruments have always been at the forefront of geotechnical testing technology and when we launched GDSLAB v2024 in September last year we delivered a major leap forward in usability, automation, and data management.

A REMINDER OF SOME OF THE KEY FEATURES THAT WERE INTRODUCED LAST YEAR:

- Enhanced User Interface (UI) & User Experience (UX)
- Multiple Language Interface
- Real Time Graphs for Dynamic Tests
- Advanced Data Management and Analysis Tools
- Datastore for Test Data
- Increased Test Automation and Customisation
- Expanded Testing Capabilities
- Improved Compatibility with Testing Hardware

Here's what our MD Karl Snelling said having been heavily involved in the development of the new software:

“For labs looking to streamline operations, improve the quality of their testing and future proof their Geotechnical testing - the new GDSLAB software is a game-changer.”



LANGUAGE VERSIONS ADDED SO FAR

GDSLAB v2025: The Latest Twice Yearly Update

Now we're taking things even further. Six key enhancements are now available (from March 31st 2025) - making testing even faster, smarter, and more intuitive - ensuring seamless integration, precision, and efficiency.

1 Integrated Consolidation Analysis Tool: Seamless Workflow, No Extra Data Handling

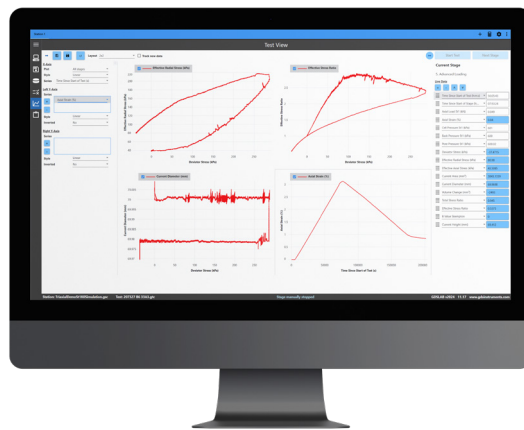
- Now fully integrated into GDSLAB, eliminating the need for external tools and extra data files.
- Automatic Shear Rate Calculation – The system calculates and transfers the maximum shearing rate directly to the next test phase.
- Smoother User Experience – Works seamlessly within the GDSLAB interface, following your language settings and storing results for easy retrieval.

Bottom Line: No more manual data transfers, fewer errors, and a streamlined workflow that saves time and effort.

2 Triaxial K0 Axial Ramp Control: A Customer-Requested Game Changer

- Enables Axial Stress-Strain ramp control, a long-awaited feature tested in real-world scenarios at Geo Denmark.
- Complements existing K0 testing with Radial Stress ramp control, giving users more flexibility.
- Backed by a case study collaboration with Geo Denmark for validation and insights.

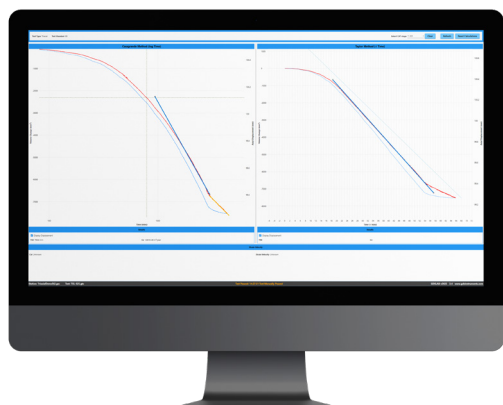
Bottom Line: More control, more precision, and a feature designed directly in response to customer needs.



3 Automatic End of Primary Consolidation Detection: Faster Results, More Efficiency

- Uses Anova F statistical analysis to detect the End of Primary Consolidation automatically.
- Enables faster progression to the next test phase, saving time and reducing manual monitoring.
- Ensures accurate calculation of consolidation coefficient and max shearing rate.

Bottom Line: Automating this process means less waiting, fewer errors, and increased efficiency in oedometer testing.



AND THERE'S MORE

4 Windows Compatibility & Performance Boosts

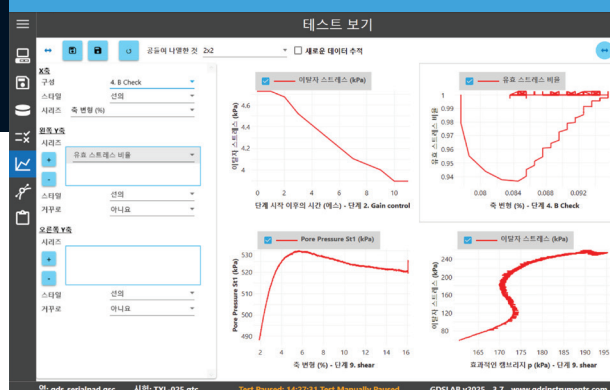
- Critical updates ensure GDSLAB runs smoothly on Windows 10 & 11.
- Upgraded to .NET 8 & SciChart v8, improving performance, security and stability.
- Graph Plotting Optimization – Handles large datasets faster with better memory management, ideal for lower-spec PCs.

6 Strain Rate Input in %/hr for Consolidometer Tests – Eliminates Manual Conversion Errors

Now allows strain rate input in %/hr, preventing operator conversion mistakes and aligning with industry standards.

5 New Language Support

Korean (to add to the already introduced Chinese, French, German, Spanish, Polish and Japanese).



Why Upgrade to GDSLAB 2025?

1. Faster, more intuitive workflows
2. Enhanced automation to reduce errors
3. Improved performance & compatibility
4. Customer-driven features based on real-world needs

Upgrade now and experience the next level of geotechnical testing!

New Licencing Options

GDSLAB Software will be updated twice yearly based on the hugely valuable feedback of the userbase, ensuring it remains the most comprehensive geotechnical software on the market, as well as ad-hoc essential updates as and when required. Customers taking advantage of the licencing agreement will get these updates automatically.

Visit www.gdsinstruments.com/gdslab for more information including video tutorials.