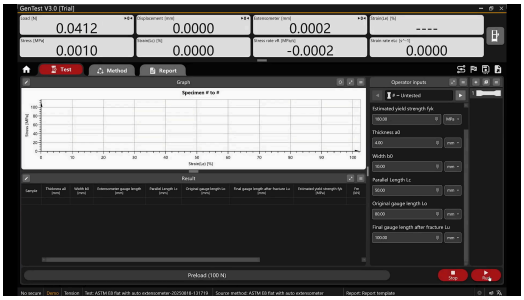
GenTest v3.0 Software for Universal Testing Machines

- ULTIMATE USER-FRIENDLINESS
- LEADING DEPENDABILITY AND RELIABILITY
- STRICT COMPLIANCE WITH INDUSTRY STANDARDS
- STOCKED CONSUMABLES AND SPARES
- TRUSTED AFTER SALES TECHNICAL SUPPORT
- LIFETIME PRODUCT SUPPORT ADVANTAGE



Description

GenTest v3.0 is NextGen's data acquisition and test control software for universal testing machines, developed for UTMs. It is built around a method driven workflow: the test method defines the control steps, the live channels and curves, the calculation rules, and the report output. This keeps setup parameters, operator inputs, recorded data, calculated results, and reporting tied to the same test record.

GET A QUOTE

GenTest is used in QA/QC and laboratory environments where repeatability, traceability, and consistent documentation matter. It supports real time monitoring during the run, built in calculation of common mechanical properties, flexible unit systems, and export ready reporting. Methods and templates help keep test execution consistent across operators and shifts.

GenTest is available for both servo-hydraulic and electromechanical universal testing machines within the NextGen ecosystem, so labs can keep the same software logic when different frames are used across stations or sites.

Supported Test Types

GenTest supports the core UTM workflows used in routine and standards based testing:

- Tensile testing
- Compression testing
- Bending and flexure testing
- Shear testing



Fixture.

Depending on your configuration and accessories, the method library may also include application specific groups.

Typical Applications

GenTest is intended for daily testing programs where the lab needs controlled execution and repeatable reporting:

- Incoming inspection and batch verification
- Routine QC across shifts and lots
- Supplier qualification and material comparisons
- R and D comparisons, process changes, and heat treatment checks
- Metal testing programs in aerospace, automotive, construction, and manufacturing

Key Features of the GenTest Software

GenTest includes a practical set of features that support the full testing workflow for the test types it runs. The main benefits come from:

Method-Driven Workflow	Tests run from defined methods, keeping setup parameters, recorded data, calculations, and report output tied to the same test record.
Templates And Standards-Based Methods	Create methods from normal or expert templates, or start from example methods aligned with common standards-based workflows.
Step-Based Test Control	Build methods as multi-step sequences (Step 1–Step 4) with configurable control logic and changeover conditions for consistent execution.
Real-Time Curves And Monitoring	Monitor tests during the run using common views such as stress–strain, displacement–load, load–time, and strain–time.
Built-In Calculations	Calculate key mechanical results such as UTS, yield strength (ReL/ReH/Rp), elongation, and modulus of elasticity (when configured by the method).
Flexible Units And Formulas	Work in N, kN, kgf, lbf, MPa and apply formula-based expressions for method-specific conversions and outputs.
Report Templates And Export	Generate standardized reports with tables and graphs, with export options that fit Word/Excel documentation workflows and raw data review.
Demo Mode And Simulation Files	Train operators and validate methods using simulated runs without connecting to the testing machine.
User Management And Permissions	Create users, assign roles, and control access to method editing and test operation for QA/QC environments.

Watch Video



Watch the GenTest v3.0 Software for Universal Testing Machines product video.

WATCH ON YOUTUBE

Support, Quotes, And Technical Help

If you need help choosing the right GenTest configuration or would like to try the software on your NextGen UTM, our team can help. Contact us or request an online quote for installation guidance, licensing questions, compatibility confirmation for your machine, or any technical support if you already own GenTest, and we'll respond with clear next steps and make sure you can get up and running quickly.

For Laboratories

Need Additional Quality Control Equipment to Build Your Laboratory?

Servo-hydraulic universal testing is only one part of a complete quality control laboratory. NextGen can help you equip your entire lab with impact testers, notching and broaching systems, cooling chambers, tensile testers, hardness testers, specimen preparation equipment, and other supporting solutions, all coordinated as one complete project.

- One partner to equip your complete laboratory
- Installation, training, calibration
- Support for the life of the equipment

GET A QUOTE