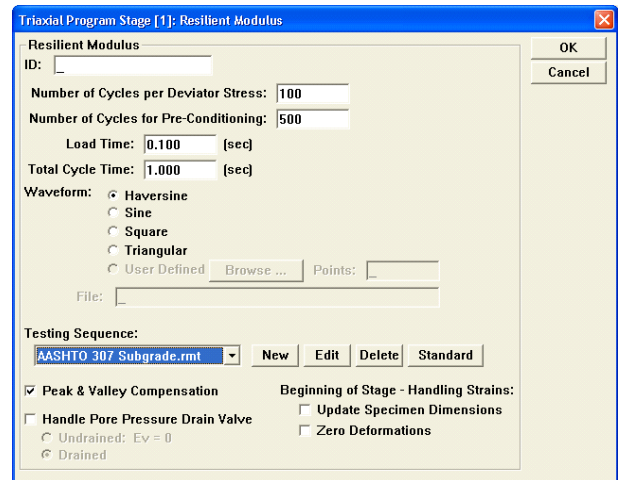
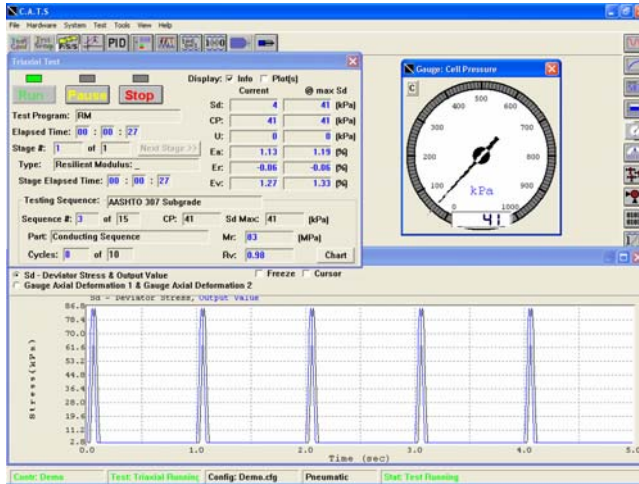


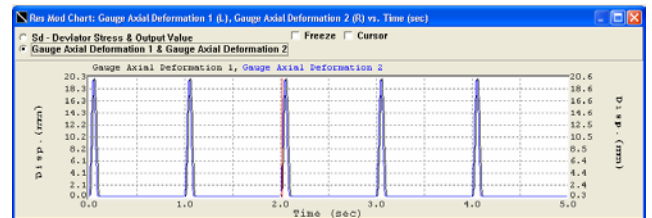
Resilient Modulus Software (TRX-MRT)



- User-friendly Windows XP™ compatible software for automated test control according to AASHTO T 307-99, SHRP-P46SHRP P-46, as well as user definable test procedures
- User selectable waveforms (sine, haversine, triangular, square, or user defined)
- Automatic Resilient Modulus Model Fitting
 - $M_r = K_1(\sigma_m)^{K_2}$
 - $M_r = K_1(\sigma_d)^{K_2}$
 - $M_r = K_1(\sigma_d)^{K_2}(CP)^{K_3}$
where CP = Cell Pressure
- Export data directly to Excel™ or other Windows™ programs
- Compatible with most resilient modulus test systems
- Can be used by research, commercial, or educational laboratories

cycles are applied in pre-conditioning and normal loading stages.

The Peak & Valley compensation allows the software to precisely match the prescribed stress amplitude by adjusting the output to the servo valve to compensate for differences in load amplitudes from one sequence to another.



During testing, there is on the fly measurement of Rv (to ensure that the two deformation sensors are in agreement) and Mr. During export, curve fitting is done to fit the results to models that predict Mr as a function of σ_m , σ_d , and CP (cell pressure).

The GCTS Resilient Modulus testing systems have been designed to take full advantage of our new software and electronics so that all test stages can be automatically performed from beginning to end with minimal user intervention.

DESCRIPTION

The new GCTS MRT stage software, part of the Triaxial Test module of the CATS 32 bit Windows software, which coupled with our new SCON electronics, is the most advanced resilient modulus software available today. This software has simplified the operation of our resilient modulus instruments by allowing the user to directly program test calculated parameters in the units of interest (such as stress) based on the specimen dimensions. These parameters are calculated in real time and are available for display, graph and/or control. Example of test calculated parameters includes σ_d - Deviator Stress and ϵ_a - Axial Strain.

The Resilient Modulus stage allows the user to either select from one of the standard resilient modulus test programs, or allows the user to setup a user defined test program (up to 30 sequences). The user has complete control over how many

