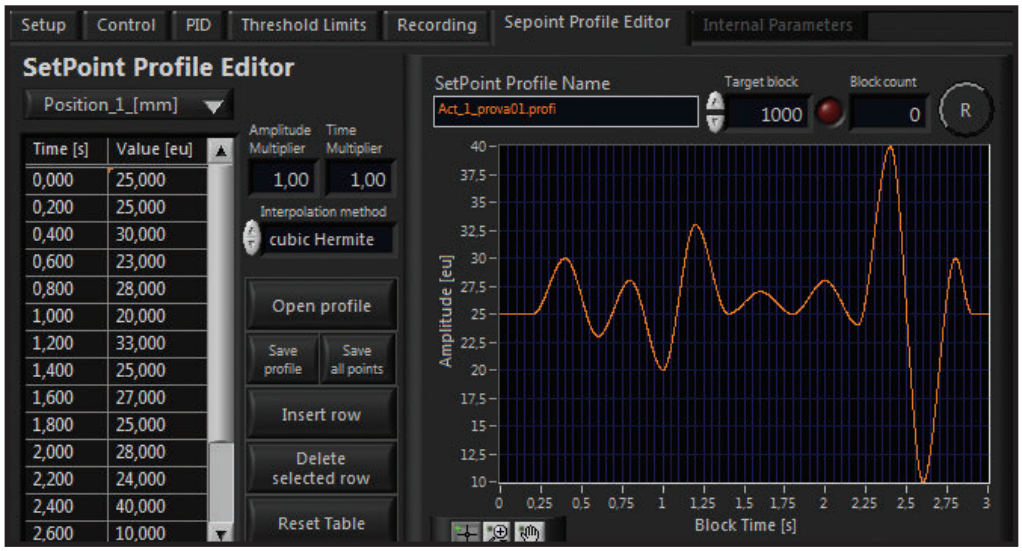
SETPOINT PROFILE SOFTWARE EDITOR

Profile Editor Tool is an additional component of the RTC 9000 software which allows variable profile, cyclical fatigue tests to be performed. The profile is generated directly by the operator on the software interface or with an external text editor and then loaded quickly onto the software tool.



The test profile can equally be set with the control procedures available in the series of RTC 9001 and RTC 9000 controllers, that is:

- Position control
- Force control
- AUX 1 control (auxiliary channel)
- Control with Encoder

The Time and Amplitude multiplier functions enable the designed profile to be changed quickly, by intervening on the times and amplitude of the measures selected for running the test (force-position-Aux1-Encoder).

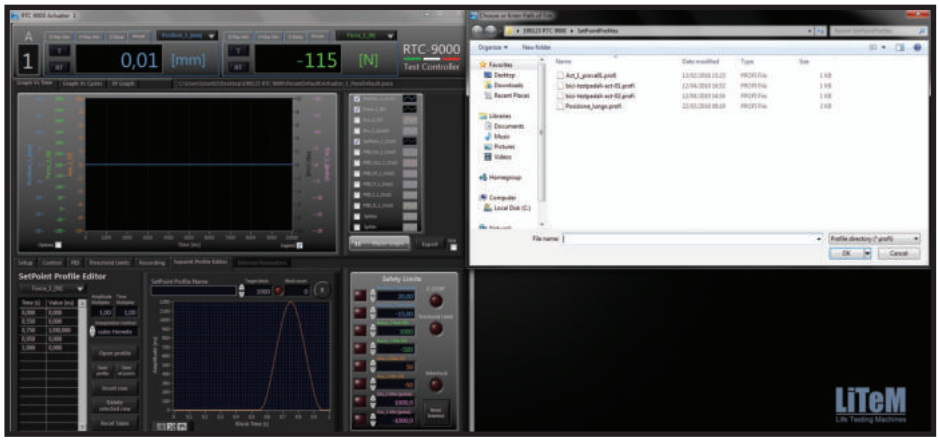
It is possible to select 4 different modes for interpolation of the points that define the profile.

Applications

The Profile Editor Tool is useful when the intention is to apply stresses to the component with variable amplitude and frequency over time (unlike the sinusoidal, square and triangular waves).

The Profile function enables the replication in defined blocks of the real stresses that the component will be subjected to during normal operating conditions. The maximum duration of the profile is 300 seconds.

The Tool Profile is essential when the replication is required for variable profile load curves, arising from acquisitions performed through sensors and data loggers applied directly on the component during normal operation or during in-field test



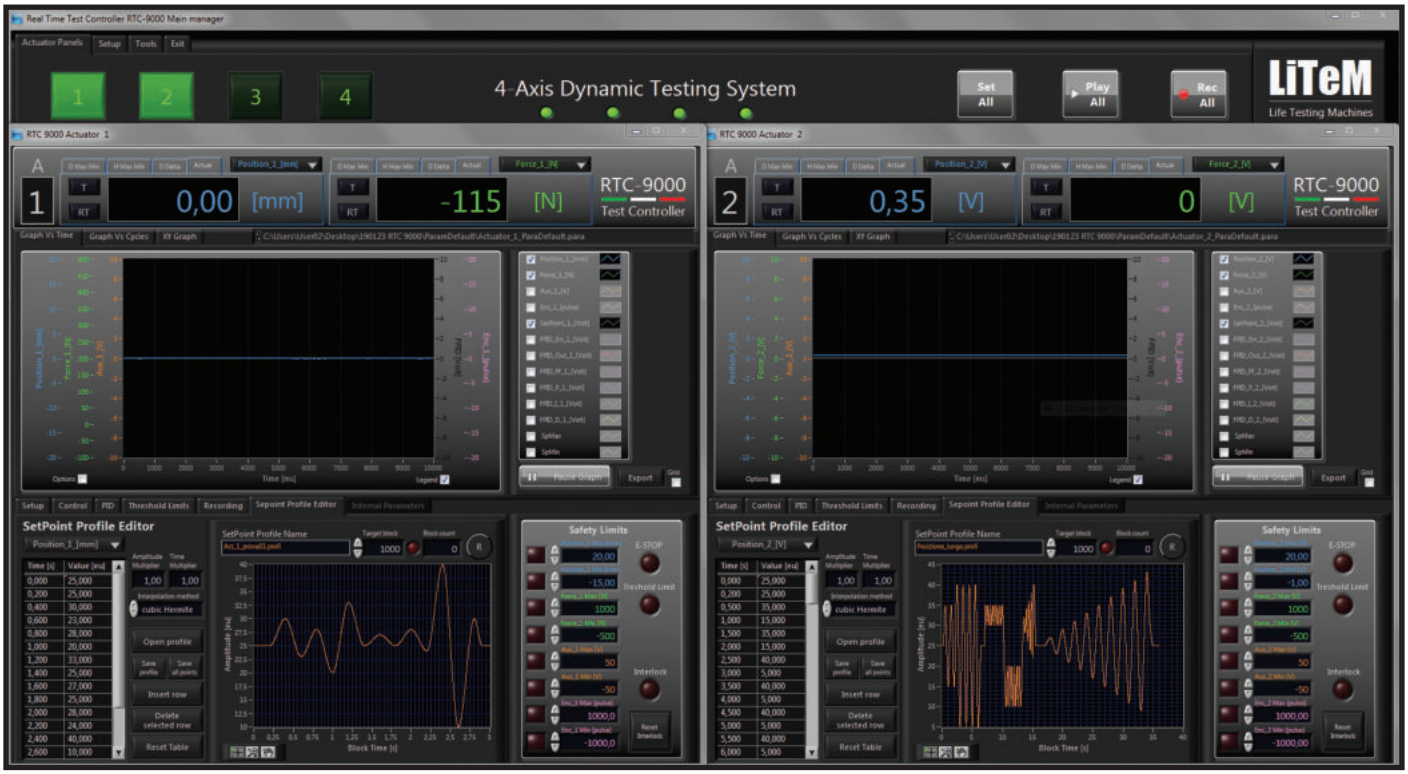
The profiles can be saved and then retrieved when there is a need to replicate tests on similar components.

It is possible to set the number of blocks (load curve) to be performed.

The system will stop the test once the set number of cycles has been achieved.

Multi-axial Tests

The Tool Profile Editor software is also applicable to RTC 9000 multi-axial systems.
In this case it will be possible to assign a different load curve (profile) to each actuator. These profiles can be performed at the same time.



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