

PROFILE EDITOR - SOFTWARE TOOL

The Profile Editor is an additional tool of the SX Software Suite that allows performing cyclic fatigue tests with variable profiles.

The profile is programmed by the operator directly in the software interface or with an external text editor and then loaded into the tool.

The test profile can be programmed and executed under Position, Force, or Encoder control.

The Gain Amplitude and Gain Time functions allow quick modification of the drawn profile, acting on both the timing and the amplitude without having to reprogram the entire profile.

The profile is programmed point-by-point and five interpolation modes are available for the points that describe the profile:

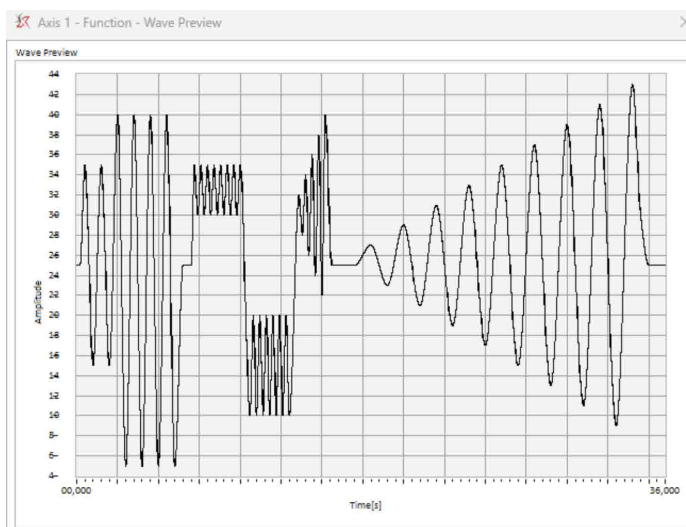
- Lagrange
- Cubic Hermite
- Nearest
- Linear
- Spline



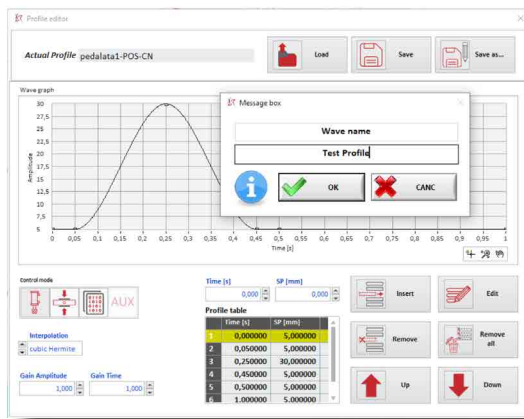
Applications

The Profile Editor tool is useful when you want to apply time-varying loads with changing amplitude and frequency to a component, unlike what can be achieved with standard sinusoidal, square, or triangular waves.

The Profile Editor function allows reproducing, in defined blocks, the real loads the component will be subjected to during normal operating conditions.



The Profile Editor tool is indispensable when it is required to replicate variable-profile load curves derived from real field acquisitions during the component's normal operation. Recorded data can be formatted and loaded directly into the Profile Editor tool.



Profiles can be saved and recalled as needed.

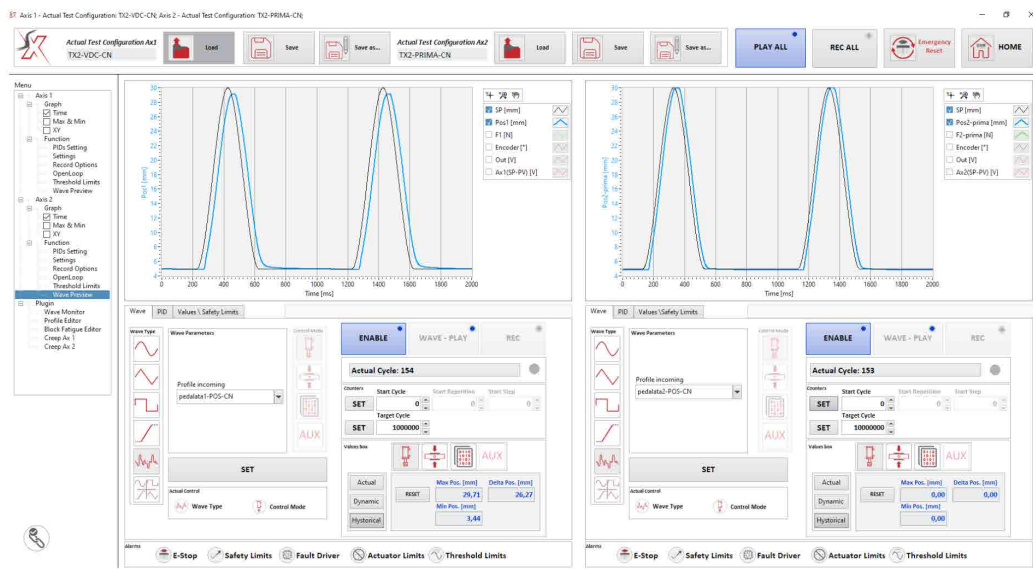
It is possible to set the number of cycles (load history) to be performed.

The system will stop the test once the set number of repetitions has been reached.

Multi-axial tests

The Profile Editor software tool can be used with all controllers in the TX and TDX series. It can also be used for biaxial tests.

In this case it will be possible to assign a different load history (profile) to each actuator. These profiles can be executed synchronously thanks to the SX software's ability to control the relative phase between the actuators.



DRC Srl
PRODUCTION and SELLING

Via Montesicuro, 58/B - 60131 Ancona (Italy)
Tel (+39) 071 80 36 077

GENERAL INFORMATION
info@litem.info

www.litem.info