



## **CIVILFEM 2017 SP1 Powered by Marc RELEASE NOTES:**

### **Main IMPROVEMENTS**

#### **General tools**

1. Improved generation of reports for results and some other customizations. Ability to create and load Python scripts associated to the report wizard.
2. Tags with values in charts of tables.

#### **Pre-processing**

1. Added model utils in thermal/structural analysis.
2. Ability to modify plates properties in steel by plates sections.

#### **Solution process**

1. Temperature definition like an initial condition in transient heat transfer analysis.
2. Improved solving process of Thermal/Structural analysis with shell structural elements and/or contact definition.
3. Friction stress limit definition in touching, breaking and advanced contact types.
4. Improved prestressed loads on tendons defined by a polyline.

#### **Post-processing**

1. Thermal fluxes and thermal gradients included like results in heat transfer analysis.
2. Harmonic results compose real and imaginary part when are plotted versus frequency in the history results.
3. Ability to select the unit in the results plotted by history results.