



CIVILFEM 2022 Powered by Marc RELEASE NOTES:

MAIN IMPROVEMENT:

1. Voxel mesher. This mesher fills the volume of a solid with a uniform mesh of cubical or rectangular hexahedral elements.
2. Composites materials. Materials composed of layers of different materials with various layers thickness and different orientations.
3. New window to create user results. Easy access to the Python commands to create your own results.
4. Von Mises plasticity for orthotropic materials.

FIXED ERRORS:

Class 3 (affecting the results)

1. Error while transferring the prestress load group on nodes if the tendon geometry has the opposite direction to the beam.
2. In a static non-linear analysis, the Acceleration load group (gravity) is not correctly removed in a load case without it if the gravity appears in a previous load case.

Class 2 (affecting usability)

1. Fixed default stress-strain diagram analysis for Eurocode 2. Short term loads diagram was calculated with a constant value of E_{psc1} .
2. Error 13 while solving models without rotational degrees of freedom (solid models for example) if masses has been defined.

Class 1 (minor errors)

1. The Python command "copyEntities" doesn't return the entities created.
2. Edge thickness slider was disabled.
3. Offset vector can't be set to zero with multiple selections.
4. User result label doesn't work for beam diagram plots.