MPanel FEA
Version 14 update

The version 14 update adds some powerful new features combined with changes to the core of the program to ensure compatibility with current versions of AutoCAD and Rhino. This version no longer supports versions of AutoCAD prior to v2010. Below is a brief list of the updates with reference details in the update drawing file and links to some detailed videos which demonstrate how the new features work.

Model Build Cantilever Poles

A new Cantilever pole has been added in version 14 of FEA which allows modelling and reporting of pole bending stresses and overturning moments for cantilever poles with multiple sail attachments.

▶ **Cantilever Pole**

Model Build Updates

We've renamed Encastre poles to simulated cantilever poles to be consistent with the new pole defined above.

Dual-loop Solver

New dual-loop solver for "Cantilever Poles with adjustable link" allows analysis of poles with multiple sail connections.

Check Plot & Results

- New Results report of "Bending Stress and Bending Moment" of cantilever poles with multiple sail connections.
- New standard plots "CRPN" (Cable, Restraints and Pole Numbers).
- Added Stiff node numbers added to check plot.
- Added cantilever poles and numbers to check plot.

Other updates and changes

- New raw data "angular direction of reactions" and "sum of reactions".
- New raw data "sum of reactions" for stiff pole bottoms.

We trust you will enjoy these new features and that they will benefit your company.

Thank you for your continued support and again, we encourage you to provide feedback and suggestions for improvements.

MPanel Support Team