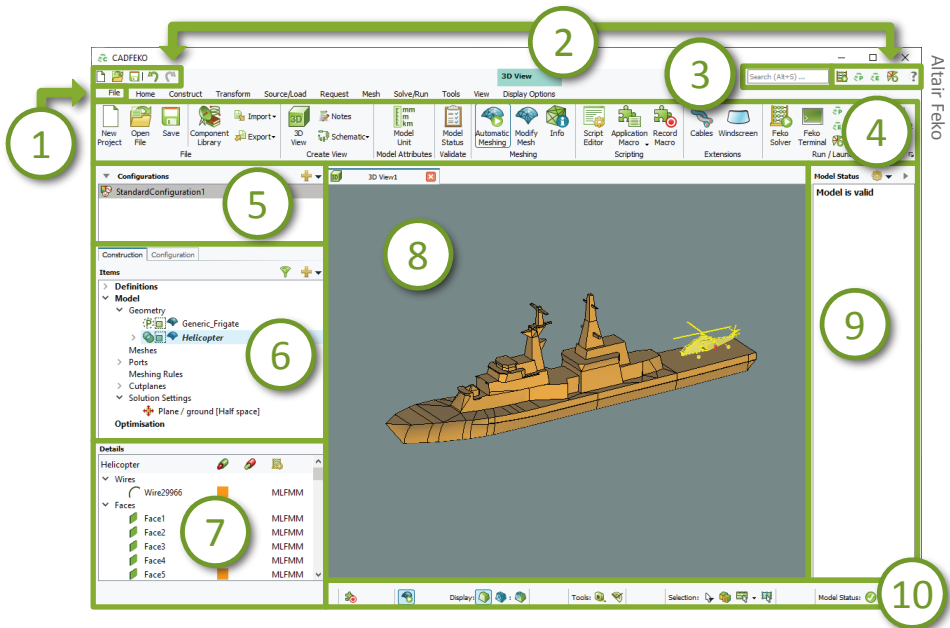# CADFEKO Quick Tips

1. File Menu
- Displays general commands (Save As, Import, Export, Check for Updates, Settings, etc.)

2. Quick Access and Launch Toolbar
- Global access to common tasks (including Save, Undo, launch Feko Solver, access help)

3. Search Bar
- Search for operations or help
- Quick access to advanced operations

4. Ribbon
- Default tabs (Construct, Mesh, Solve/Run, etc.)
- Contextual tabs (e.g. Display Options)

5. Configurations List
- Add and manage solution configurations
- Select configuration

6. Model Tree
- Context menus to manage geometry objects, meshes, solution settings, parametric variables

7. Details Tree
- Geometry object details (edges, faces, regions)
- Apply custom solution and mesh settings

8. View (3D)
- Visualise geometry, meshes, solution settings and output requests (far and near fields)
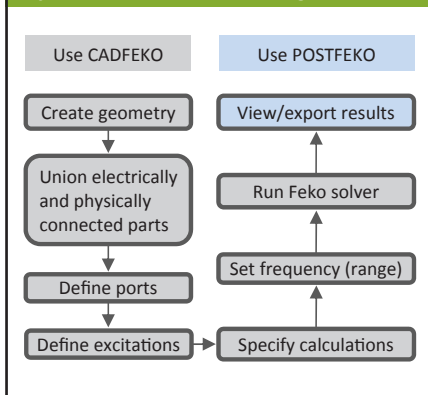
9. Notification Centre
- Performs CEM validation
- Highlight problems in model

10. Status Bar
- Global access to macro recording, auto meshing, display settings, selection, tools, model unit, etc.

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CADFEKO Quick Tips

Typical Workflow When Using CADFEKO

Use CADFEKO

- Create geometry
- Union electrically and physically connected parts
- Define ports
- Define excitations

Use POSTFEKO

- View/export results
- Run Feko solver
- Set frequency (range)
- Specify calculations

Selection of Keyboard Shortcuts

Shortcut	Action
Alt + 3	Run POSTFEKO
Alt + 4	Run Feko solver
Alt + 6	Run OPTFEKO
Ctrl + K	Create duplicate
Ctrl + M	Modify mesh
Ctrl + A	Select all (in collection)
Ctrl + Shift + A	Select all in model
F1	Context-sensitive help *(dialog/window with focus)*
F2	Rename
F5	Zoom to extents

CADFEKO Meshing Guidelines

- Global mesh sizes are set in the meshing dialog (Coarse, Standard, Fine or Custom)
- Local mesh sizes can be specified for individual components in the details tree
- Point, polyline and adaptive mesh refinement rules can be defined to mesh finer in certain areas (user-defined or error estimation based)
- To ensure a good mesh, there should be no overlapping faces or disconnected parts. Use the union operation to ensure that parts are connected:

  Ctrl + Click Select parts — **Union**

  U Union selected parts

- For imported models, the stitching operation performs a similar function, allowing faces that are slightly misaligned to be merged together — **Stitch**
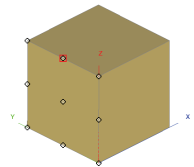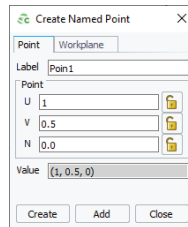
Macro Recording

- Use macro recording to record actions in a script
- Play the script to automate process and to perform repetitive actions faster — **Record Macro**

CADFEKO Point Entry and Snapping

- Quick entry of field values in dialogs based on 3D view and model tree
- Yellow background when point entry is possible
- **3D View:** Snapping and point entry preview activated by holding down **Ctrl + Shift**
- **Model Tree:** Variable/named point value added to active field with **Ctrl + Shift + Click**

Create Named Point

Point | Workplane

Label: Poin1

Point
U: 1
V: 0.5
N: 0.0

Value: (1, 0.5, 0)

Create | Add | Close

Shortcut	Action
Ctrl + Shift	Snapping preview
Ctrl + Shift + Click	Point entry