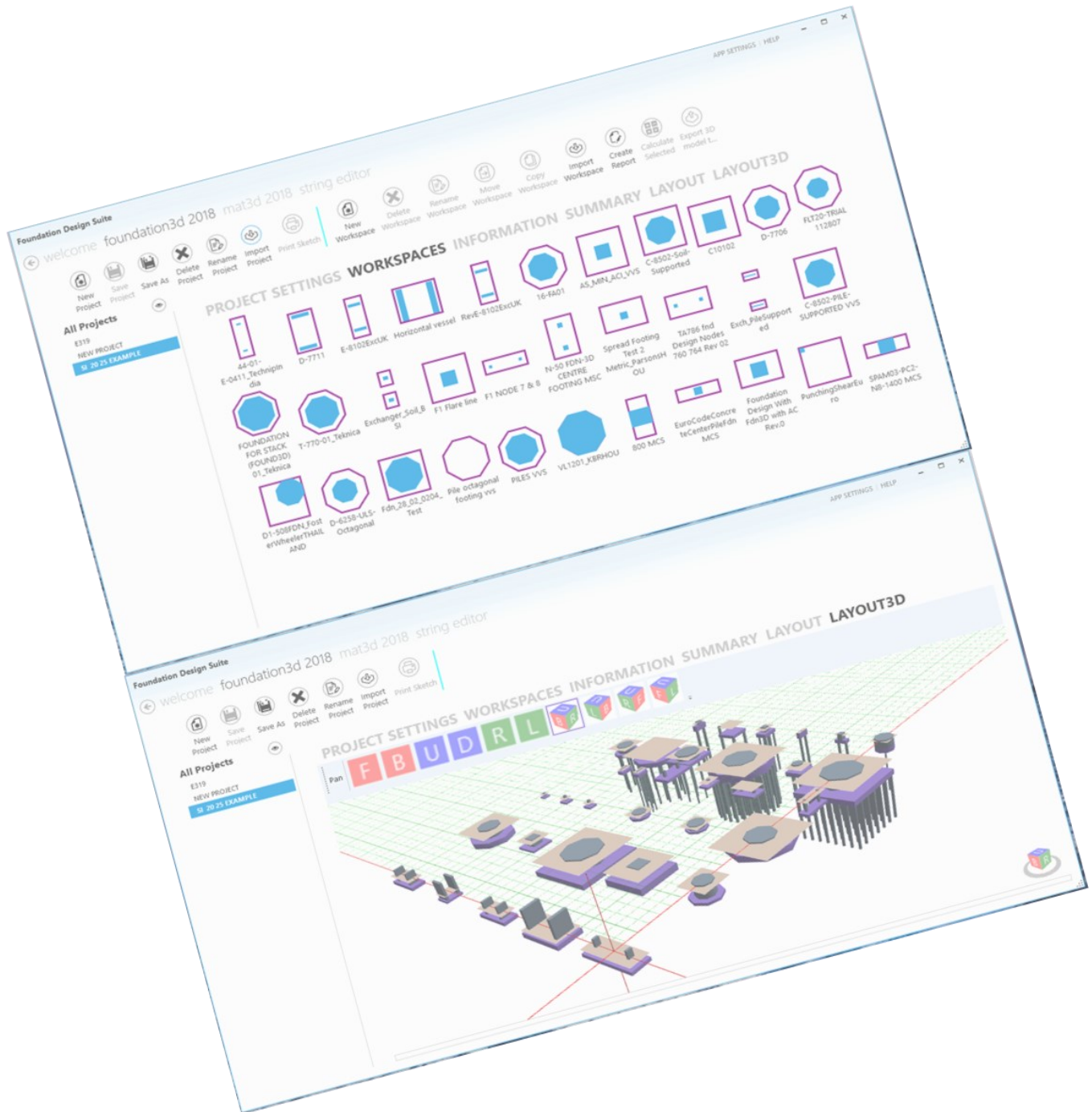




**DIMENSIONAL SOLUTIONS, INC.**

Software for engineers, by engineers

# Foundation3D 2019 / Mat3D 2019 Enterprise-enabled Engineering solution



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# Foundation3D 2019 / Mat3D 2019

## Enterprise-enabled Engineering solution

### New Features: User Interface

1. Experience Windows 7, 8 and 10 look and feel with touch-screen capability
2. Resize windows to suit various monitor resolutions
3. **Customize** your design type environment **at initial launch** such as input and output units, concrete design code and more
4. **Switch between different products easily** since all products are integrated into one user interface
5. Work on multiple projects easily
6. Enter project technical specifications on the Summary page to quickly view design criteria
7. Group projects by user-defined criteria such as soil-supported vs pile-supported, onsite vs offsite etc.
8. Manage projects and workspaces (**A workspace is equivalent to one foundation**) easily with buttons such as copy, move, rename etc.
9. See **bird's eye view of all the foundations** in a project with foundation centerline coordinates graphically
10. View **foundation conflict warnings** when foundations overlap
11. **View 3D models** of all the workspaces in the selected project
12. Generate **AutoCAD 3D models** of all the workspaces in the selected project
13. Complete **multiple foundation designs with one click** by selecting multiple workspaces
14. Customize settings at various levels - Application, Project and Workspace
15. **Import multiple foundation inputs** all at once
16. Input just existing foundation geometry without completing the design to check its conflict with new foundations around
17. Select "My Projects" to work on from a list of "All Projects"
18. View and locate workspaces displayed as graphical icons in the selected project easily

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### New Features: User Interface

19. Use **Workspace Wizard** to create new default workspaces or import data from other third party solutions to generate equipment or non-equipment foundation layouts
20. Design **Irregular-shaped footings** with or without cutouts or holes
21. Use your company specifications for creating workspaces with **default footing and pier geometries**
22. **Copy footing, pier, pile geometries from one source footing** to all other footings in a footing group workspace with one click
23. Manage backup and deleted projects and workspaces efficiently

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## Enterprise-enabled Engineering solution

### New Features—Engineering

1. **Change input units** in a workspace on the fly
2. View foundation design results in different output units on the fly without recalculation
3. Select output display precision
4. Choose to complete design of only the Footing or both Piers and Footing
5. View completed designs of both fixed and sliding footings and piers
6. Perform **uplift calculations** for soil-supported foundations
7. Select piers for which concrete design is desired
8. Select **different rebar sizes for each pier**
9. Apply pile group reduction to tension and shear capacities
10. Perform **enhanced copy/paste operation from/to Microsoft Excel**
11. **Import support reactions** and combinations from other standard **third party software solutions** without any modification to import files
12. View equipment in 2D and 3D views
13. View ultimate bearing pressures and ultimate pile capacity outputs
14. **Define allowable load types** for each load combination so that a different set of allowable increase can be specified for each load combination
15. View **summarized view of the design results** as well as a log that lists failure messages
16. View sketches immediately on calculate

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## Enterprise-enabled Engineering solution

### New Features—Engineering

17. **Customize report** to include/exclude specific sections
18. View concrete design code section references in reports
19. Generate Excel reports of all successfully completed foundation designs with one click
20. Generate **AutoCAD 2D-CAD drawing** of the completed foundation design
21. **Use custom AutoCAD template** files to generate 3D models and 2D CAD drawings
22. **One-click calculate multiple workspaces** and view a summarized result of all pass/fail conditions of each foundation and the governing load combination
23. **Auto generate piers** or load elements in a rectangular pattern at desired spacing from a single pier location
24. Create default workspaces of exchanger, horizontal vessel, vertical vessel and mat foundations using user-specified minimum footing and pier geometry settings
25. Seamlessly **import GT STRUDL** created super structure **node geometry and reactions** via Workspace Wizard
26. Seamlessly **import PV Elite** created equipment geometry and loads via Workspace Wizard
27. Generate **Irregular-shaped footings** supporting piers and cutouts (holes) in a designer user interface easily and quickly and complete foundation design of these footings
28. Consider moment contribution to punching shear
29. Easily copy footing, pier and pile geometries from one source footing to other footings in a footing group workspace saving significant modification time
30. Create a **Consolidated Report** of all the workspaces in Microsoft Excel for easy result comparison

And many more....

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