TANK™
Design, Analysis & Evaluation Software
TANK Engineering Software for Design, Analysis & Evaluation of Oil Storage Tanks

TANK is a comprehensive, easy-to-use software program for the design, analysis and evaluation of welded steel oil storage tanks according to the latest American Petroleum Institute (API) Standards 650 and 653. It provides owners, operators and engineering firms with quick and comprehensive designs for new tank construction and evaluation of existing tanks.

After error checking, users can view analysis results in a tabular, text report (shown above) or as graphic output.

Input is fast because each input item includes an edit box with the expected units displayed.

Built for Real-World Solutions
TANK was developed and continues to be refined through direct input from engineers who deal daily with API standards and methods. This ensures TANK includes all the tools to quickly and accurately analyze, design and evaluate oil storage tanks.
The Help system includes API code references for easy verification and is organized hierarchically with a built-in search feature for rapid navigation.

Nozzle interaction diagrams show the relationship between nozzle loads and their limits.

Shell settlement diagrams plot the measured settlement around the tank against the planar cosine curve.

Supported cone roof design output shows results for column, girder and rafter rings and roof plates.

**Designed for Fast Input**

For quick selection, TANK provides tool bars with familiar graphic symbols and drop-down, text-based menus. Each tool-bar button corresponds to a text-based menu item, so you can select from either source.

When beginning input for a tank analysis, TANK displays all of the descriptive texts and the expected units or specifications for each. You select the appropriate units from one of TANK’s standard units files. You may use the standard units or change them as needed. Regardless of the units you choose for your analysis, each is managed by a powerful custom unit management system. You can even convert a prior or an existing job into a completely new set of units.

**Extensive Built-in Materials Databases**

TANK saves you time by letting you scroll, select and load material information automatically from its extensive built-in materials databases. Other built-in databases include structural steel, seismic curves and nozzle curves from current and past API specifications. TANK includes a database editor to allow full customization of the materials databases.

**Full Customization Flexibility**

TANK lets you control everything from calculations to databases, so you can customize your own TANK environment as you choose. Do you want to use the built-in API material database from a prior year? Do you want to consider corrosion in the Appendix P nozzle flexibility calculations, wind girder calculations or internal pressure calculations? These and numerous other customization options let you achieve results your way.

**Convenient Error Checking**

Once input is specified, the software performs error checking, highlighting any unusual or incompatible data. This helps ensure units and other specifications make sense in the real world. Once the input passes error checking, you can begin the analysis.

**Operational Features Summary**

- Menu/dialog driven
- Context-sensitive help
- Integrated error checking and run-time diagnostics
- Interactive report review in selected dimensions
- User-defined built-in units systems
- Built-in API materials databases
- Material database editor for user-added materials
- Digitized API 650 Appendix P and Appendix E curves
- Graphics display of shell settlement, nozzle interaction and roof design
- Library of structure shapes to facilitate roof design
- Simultaneous, multiple job processing

**Tabular and Graphic Output**

After completing an analysis, you can view the results in a tabular report or as a graphic diagram with associated data. For convenience in verifying the results, the output reports reference code sections where applicable.

**Quick Context-Sensitive Help**

TANK’s context-sensitive Help provides instant technical assistance for each data field. It lists pertinent information about the selected item, including code references and technical advice, and refers to related sections of the API codes where applicable. To make searching easier, the Help system is organized in a hierarchical fashion much like a book. It also includes a built-in search feature for rapid navigation.
Hardware/Software Requirements:

- Intel Pentium processor (or equivalent)
- Microsoft Windows (95/98, NT 4.0 or later) Operating System
- 16 Mbytes RAM
- 30 Mbytes of disk space
- CD-ROM Drive
- Microsoft Internet Explorer (4.0 or later) for HTML help system

TANK Licenses:

All TANK software licenses provide the following as standard:
- Complete program
- One complete set of program manuals
- Technical newsletter subscription
- Phone, fax, bulletin board, web site and e-mail access for technical support

Full License provides:
- Perpetual single license with no limit on the amount or duration of use
- One full year of automatic upgrades from date of purchase
- Eligibility for annual extensions of automatic upgrades
- Eligibility for discounts on additional TANK Full License purchases

Monthly Lease provides:
- Full License copy on a monthly rental basis
- Option to apply first month lease when converting to a Full License purchase.

Users can make quick menu selections using convenient tool bar buttons or drop down dialog boxes.