

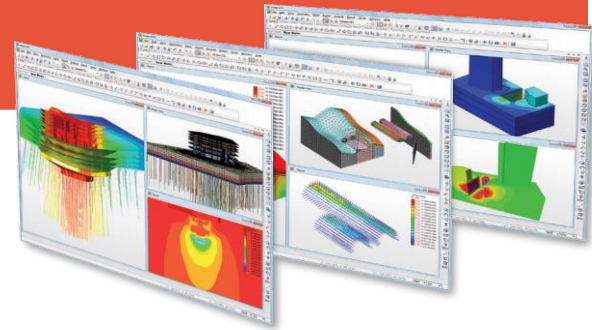


midas GTSNX

GTS NX is finite element analysis software for advanced geotechnical analysis of soil and rock deformation and stability, as well as groundwater flow, dynamic vibrations and soil-structure interaction in 2D and 3D.

For Who? GTS NX is used for analysis, testing, and design by geotechnical, civil, and mining engineers. It is designed to adapt any kind of geotechnical project. The intuitive interface will enable new users to easily integrate the software in their work process.

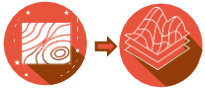
Advantages The fast analysis speed, outstanding graphics, and output capabilities will provide users with a new and advanced level of geotechnical design.



01. Versions



Standard Version



Terrain Geometry Maker



Real 3D Geometry Modeling



Powerful mesh Generator



Excavations and Open Pit



Retaining Wall



Soil-Structure Interaction



Pile Foundation



Diaphragm Wall



Tunneling and Mining



Fast Analysis Solver



Outstanding Post-processing

Geometry Modeller

- Import CAD File (Parasolid, DXF, DWG, MXT(midas GEN/CIVIL))
- Point/Curve/Surface/Solid/Advanced Modelling
- Bedding Plane Wizard (3D Ground Stratigraphy from Borehole Data)
- Terrain Geometry Maker (TGM)

Element Library

- 1D Type (Truss/Embedded Truss/Beam/Pile/Geogrid)
- 2D Type (Shell/Plane Stress/Plane Strain/Geogrid/Gauging Shell/Axisymmetric)
- 3D Type (Tetrahedron/Pyramid/Wedge/Hexahedron)
- Other Type (Spring/Interface/Shell Interface/Link/Pile Tip)
- Bonded Contact Element

Mesh Generation (Auto/Map/Hybrid/Protrude Mesh Generation)

Material Models

- Linear Elastic
- Orthotropic (Transversely Isotropic/Jointed Rock Mass)
- Elasto-plastic (Tresca/von Mises/Mohr-Coulomb/Drucker-Prager/Hoek-Brown/Modified Cam-Clay/Jardine (London clay)/Modified Mohr-Coulomb)
- Nonlinear Elastic (Hyperbolic (Duncan-Chang)/D-Min) Strain Softening
- User supplied material for Plane Strain, Shell Joints and Volumetric Elements
- Elastic/Coulomb Friction Interface

Analysis Capabilities (64bit/GPU Solver, Batch Analysis and Parametric Analysis)

- Static Analysis (Linear, Nonlinear)
- Construction Stage Analysis (Drained, Undrained)

Wizard (Tunnel/Anchor Modelling Wizard)

Post-Processing

- Contour/Vector/Diagram Plots
- Advanced Features (Probe/Multi Step Iso Surface/Extract/Cutting Diagram/Others)
- 3D Dynamic PDF Report

02. Options

Additional Options



Slope Stability

Slope Stability Analysis

- Strength Reduction Method (SRM)
- Stress Analysis Method (SAM)
- Construction Stage Analysis



Dams

Seepage Analysis

- Steady-State Analysis
- Transient Analysis
- Sequential Seepage-Stress Analysis
- Construction Stage Analysis



Groundwater Flow

Consolidation Analysis

- Coupled Seepage-Stress Analysis (Static Boundary Conditions)
- Construction Stage Analysis



Dynamic Analysis

Dynamic Analysis

- 1D Ground Response Analysis
- 2D Equivalent Linear Analysis
- Eigenvalue Analysis
- Response Spectrum Analysis
- Time History Analysis (Linear, Nonlinear)
- Nonlinear Time History Analysis with SRM



Earthquake Deformations

Fully Coupled Analysis

- Fully Coupled Stress-Seepage Analysis (Transient Boundary Conditions)
- Construction Stage Analysis

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