MIDAS Solutions & Services

World’s Leading Software Solutions for Civil & Mechanical Engineering
About MIDAS

No. 1 Market Share in Civil Engineering Software Solutions

<table>
<thead>
<tr>
<th>120</th>
<th>Distribution in over 120 Countries</th>
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<tbody>
<tr>
<td>450</td>
<td>Number of Engineers &amp; Professionals</td>
</tr>
<tr>
<td>10,000</td>
<td>Number of Clients</td>
</tr>
<tr>
<td>30,000</td>
<td>Number of Licences Distributed Worldwide</td>
</tr>
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</table>

[Images of projects and space station]
World’s Leading Engineering Software Solutions
Developer & Provider

MIDAS Family Software

Tens of thousands of Civil and Mechanical engineers around the world have implemented MIDAS Software in their work processes in undertaking high profile projects and everyday projects. The benefits extend from productivity to a wider range of project undertakings, eventually leading to profitability in their organisations. The MIDAS software can change the way of engineering building structures, bridge structures, infrastructures, geo-mechanical structures and computational mechanics in manufacturing.
Maximise Your Potential!

MIDAS’ state of the art technological solutions ensure your company’s productivity into a new dimension. Expand your business areas through the MIDAS solutions and services. MIDAS can help your organisation to enhance the technical capabilities. We build our success on your success.
### Key Clients (a partial list)

**Top 100 engineering companies in the world**

<table>
<thead>
<tr>
<th>Company Name</th>
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<tbody>
<tr>
<td>ACKG</td>
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<tr>
<td>AECOM</td>
</tr>
<tr>
<td>ARCADIS</td>
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<tr>
<td>ARUP</td>
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<tr>
<td>Atkins</td>
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<tr>
<td>Beca Group</td>
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<tr>
<td>Bechtel</td>
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<td>Black &amp; Veatch</td>
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<tr>
<td>CH2M HILL</td>
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<tr>
<td>Chengda Engineering Corp.</td>
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<td>China Power Engineering Consulting Group</td>
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<td>Langan</td>
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<td>Louis Berger Group</td>
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</table>

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**GLOBAL TOP 100**
Maximise your software investment

MIDAS Enterprise Solutions (MES) helps large and global organisations gain significant operational and competitive advantages, reduce software costs and enjoy unrestricted access to a comprehensive software portfolio and the network of expert support resource.

Benefit from a Comprehensive Software Portfolio & Technical Services from Experts

MES can effectively respond to varying project demands from diverse clients. MES users will be able to use the Portfolio Resource as an external part of their project teams. All the engineering software products and the expert support staff will be within their control at any time, anywhere, thanks to its worldwide licensing system and support network. All of the MIDAS’ software products for structural, geotechnical and mechanical engineering are included in Portfolio Resource. With the MIDAS’ Portfolio Resource, a significantly reduced investment will go a long way to successfully complete your projects fast and economically with high quality.

Maximise your Investment through Portfolio Resource

At a fraction of the costs of individual licences of various engineering software products and support services, the MES users will have access to the full range of the software portfolio and the expert support staff.

- Use all engineering software products
- Retain a group of experts (your external project team)
- Unify and simplify the licence acquisition management
- Reduce investment & maximise ROI
- Standardise the work process
Gain access to the Licences Wherever

MES users can now drastically improve their software ROI through sharing licences among all the offices and homes within a country via centralised licence management. So maximise the use of your Portfolio Resource anywhere and whenever.

**Enterprise Pack, E10**

<table>
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<tr>
<th>Solutions</th>
<th>List Price (USD)</th>
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<tr>
<td>midas NFX</td>
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</table>

**Description**

1. Enterprise pack, E10 has ten (10) concurrent users.
2. Enterprise pack provides unlimited full version of midas Civil, FEA, GTS, SoilWorks, Gen and NFX software.
3. Enterprise pack covers full technical support and software updates.
4. Enterprise pack is only available for MIDAS Central server, web-based licensing.
Product Overview

Application Areas

- Cable stayed bridge & Extra-dosed bridge
- Staged segmental post-tensioned bridge
- Curved steel plate and composite girder bridge
- Conventional bridge (Skewed slab, Frame & Culvert)
- Suspension bridge
- Integral bridge
- Subway structure
- Tunnel structure
- Sewage treatment plant
- Heat of hydration for mass concrete

Advanced Technology

Staged segmental post-tensioned

Contour & Nose Tip
Deflection Graph

Camber Control and Graph

Staged construction analysis

Dynamic nonlinear analysis

Nonlinear Time History Analysis

3D tendons & tension loss

Presstressed girder design

- AASHTO LRFD
- Eurocode 2
- Auto Design report

Integral Bridge with
Soil-Structure Interaction

Moving Load Optimiser

- AASHTO LRFD & LRFR
- Eurocode1
- CAN/CSA-S6
- BD37/01
- Russia
- Transverse Analysis Model

Rail Structure Interaction

Excel compatible
For more than last two decades, MIDAS Engineering Solutions have been used in designing prominent landmark structures around the world.

**Civil Engineering Field**

### Cable Stayed Bridges

- **Russky Island Bridge (Russia)**
  The World’s Longest & Tallest Cable Stayed Bridge
- **Sutong Bridge (China)**
  The World’s 2nd Longest Cable Stayed Bridge
- **New Wear Bridge (United Kingdom)**
  An Award Winning Bridge in the UK

### Segmental Bridges

- **Lee Roy Selmon Flyovers (U.S.A.)**
  Balanced Cantilever Bridge with Approx. 90 Degrees in Curvature
- **Basarab viaduct (Romania)**
  Unique-shape PSC Box Girder Bridge
- **Tarango Bridge (Mexico)**
  Bridge Awards of Excellence (ASBI)

### Suspension & Extradosed Bridges

- **Youngjong Bridge (Korea)**
  The World’s 1st 3D Self-anchored Suspension Bridge
- **Kumga Bridge (Korea)**
  Seven-span Extradosed Bridge constructed in BGM & FSM
- **Thuan Phuoc Bridge (Vietnam)**
  The Longest Suspension Bridge crossing Han River
Product Overview

Application Areas

- Load Carrying Capacity Evaluation for PSC Box Girder (cracking)
- Detailed Analysis for Concrete Structures (cable anchors)
- 3D FEM Analysis for Segmental Bridges
- Redundancy for Plate Girder System
- Detailed Analysis of Steel Box Girder and Coping Connections
- Fatigue Analysis for Steel Bridges
- Contact Analysis for Connecting Parts of Bridges
- Wind Evaluation for Bridge Sections
- Fire Analysis for Concrete Structures

2012 Enhancements

- Embedded Interface Element
  An embedded line interface element is auto-generated from the line element embedded in a solid. It is not necessary for a solid to share the nodes with a line element in the modelling stage.

- Strain-Life Approach for Fatigue
  Strain-Life Approach (E-N Method) estimates the fatigue from strain. When the structure includes a plastic region, E-N Method is more accurate than Stress-Life Approach (S-N Method).

- Pre/Post-processing Module for FEA
  A separated pre/post-processing module is now available for FEA. It is possible to combine more number of pre/post-processing modules than the number of FE solvers. A group of users in the same network can model and interpret results simultaneously, and share FE solvers when performing analysis.
Analysis Capabilities

- **Linear Static Analysis**
  - Multiple Load Cases & Combination
  - Output Control (Data, Node, Element)
  - Result Coordinate System
  - Extensive Element Library
  - Equation Solvers
    - Direct Solvers
      - Multi-frontal Sparse Gaussian Solver
      - Skyline Solver
    - Iterative Solvers
      - PCG, GMRES

- **Eigenvalue Analysis**
  - Modal Analysis
    - Lanczos Method
    - Subspace Iteration
    - Sturm-Sequence Check
    - Include Rigid Body Modes
    - Modal Participation Factors
  - Linear Buckling Analysis
    - Critical Load Factors
    - Buckling Modes
    - Load Combinations & Factors

- **Dynamic Analysis**
  - Transient / Frequency Response
    - Direct Integration
    - Multi Supereposition
    - Time Festing Function DB
    - Time Varying Loads
    - Ground Acceleration
    - Time History Plot / Graph
    - Spectrum Response
    - SRSS, CQC, ABS
    - Design Spectrum DB
    - Seismic Data Generator

- **Reinforcement**
  - Embedded Bar
  - Embedded Grid
  - Various Mother Elements
    - Solid, Plate, Axisymmetric, etc.
  - Post tensioned, Prestressed
  - Material Nonlinearity
  - Geometric Nonlinearity

- **Heat of Hydration Analysis**
  - Heat Transfer
    - Steady State / Transient
    - Heat Generation
    - Conduction
    - Convection
    - Pipe Cooling
    - Concrete Behavior
    - Creep / Shrinkage
    - Compressive Strength
    - Design Codes (ULC, JCSS, etc.)
  - Geometric Nonlinearity
  - Total Lagrangian
  - Conical Nonlinearity
  - Iteration Method
    - Full Newton-Raphson
    - Modified Newton-Raphson
    - Arc-Length Method
    - Initial Stiffness
  - Total Strain Crack Analysis
    - Fixed & Rotating Crack Model
    - Discrete Crack Model
    - Interface Nonlinearity
    - Interface Nonlinearity Analysis
  - Interface Elements
    - Point, Line, Plane
    - Pipe (Solid-Line)
  - Interface Models
    - Rigid
    - Coulomb Friction
    - Discrete Crack Model
    - Crack Dilatancy
    - Bond-Slip
    - Combined CSC

- **Contact Analysis**
  - Contact Type
    - Weld Contact, General Contact
  - Behaviours
    - Material Nonlinearity
    - Geometric Nonlinearity
  - Results
    - Displacement
    - Stress
    - Contact Force

- **Nonlinear Static Analysis**
  - Material Nonlinearity
    - von Mises, Tresca, Mohr-Coulomb, Drucker-Prager, Rankine, User Supplied Material
  - Geometric Nonlinearity
    - Total Lagrangian, Co-rotational
  - Iteration Method
    - Full Newton-Raphson
    - Modified Newton-Raphson
    - Arc-Length Method, Initial Stiffness

- **Cracking Analysis**
  - Total Stress Crack
  - Fixed & Rotating Crack Model
  - Discrete Crack Model
  - Interface Nonlinearity
  - Results
    - Crack Pattern
    - Element Status
      - (Crack, Plasticity)

- **Fatigue Analysis**
  - Methods and Parameters
    - S-N Method (Stress-Life)
    - Load / Stress History
    - Rainflow Counting (Load / Stress History)
    - Mean Stress Corrections
    - Stress Concentration Factor
    - Modifying Factors
  - Results
    - Cycles to Failure
    - Safety Factor
    - Crack Growth (Continued Repetition)
    - Damage estimation

- **Heat Transfer/Stress Analysis**
  - Steady State & Transient
  - Conduction, Connection
  - Heat Flow
  - Temperature Gradient Display

- **CFD Analysis**
  - CFD Models
    - Turbulence Models
      - RANS, k-ε, k-ω
    - Compressible Flow
    - Incompressible Flow
    - Inviscid Flow
  - Unsteady Flow
  - Discretisation Scheme
    - 2nd-order (Spatial)
    - 2nd-order (Temporal)
  - Boundary Conditions
    - Far-field
    - Wall Slip, No-slip, etc.
  - Symmetry

For more than last two decades, MIDAS Engineering Solutions have been used in designing prominent landmark structures around the world.
Product Overview

Application Areas

- All types of buildings (RC, Steel, Composite)
- Stadiums, arenas & gymnasiums
- Pressure vessels & machine structures
- Plant structures (power plant, steel plant, etc)
- Airports & hangars
- Underground structures

Advanced Technology

Design Codes

<table>
<thead>
<tr>
<th>RC Design</th>
<th>Steel Design</th>
<th>SHC Design</th>
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<td>IS-496 &amp; IS-13900</td>
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<td>KCI-USD</td>
<td>KSC-ASD</td>
<td>Framework</td>
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Automeshing and Design Procedure

- Import def file and generate vertical members
- Create meshed slabs: Auto-mesh
- Create meshed walls: Map-mesh

Dynamic Report Generation

- Automatic re-generation of the report with updated analysis & design results

Pushover Analysis

- Pushover Analysis of a 3D frame structure used for performance based design (FEMA, Eurocode 8 and Masonry)

Geometric Nonlinear Analysis

- Large displacement analysis encountered in cable supported structures, cable net structures, long span structures, etc. can be performed reflecting the change in geometrical deformations

Structural Masonry Analysis

- Masonry structures can be modelled with solid elements, which retain orthotropic material properties. The effect of nonlinearity such as tensile crack and compressive failure can be considered.

High-rise Specific Functionality

- Construction Stage Analysis accounting for change in geometry, supports and loadings
- 3D Column Shortening Analysis reflecting change in modulus, creep and shrinkage

File Manipulation

- Direct Data Transfer with Tekla Structures, Revit Structure & STAAD
- Import/Export (AutoCAD DXF, MSC.Nastran, MGT, etc.)
- Merge Data Files
- Unlimited Undo/Redo & Step Return using History

Import
Export
Integrated Analysis & Design by midas Gen

Stress Contour of Masonry Structure
For more than last two decades, MIDAS Engineering Solutions have been used in designing prominent landmark structures around the world.

**Building Structures**

- **Burj Khalifa (UAE)**
  The World’s Tallest Building

- **Moscow City Palace Tower (Russia)**
  Twisting 46-story Building with Composite Columns

- **Guangzhou Twin Tower (China)**
  103-story Multi-use Building

**Specialty Structures**

- **Beijing National Stadium (China)**
  Beijing Olympic Main Stadium

- **Temietto di Villa Barbaro (Italy)**
  Structural Evaluation of Vulnerable Historic Building (Built 1580)

- **German Pavilion (China)**
  Shanghai EXPO

**Plant Structures**

- **Tavazon Steel Plant (Iran)**
  Steel Manufacturing Plant (1,400,000 Ton/Yr.)

- **Kideco (Indonesia)**
  Coal Mining Plant (32,000,000 Ton/Yr.)

- **Hadded CCL (Saudi Arabia)**
  Color Coating Plant including RCL, CPL & Utility (120,000 Ton/Yr.)
Application Areas & Dedicated Tools for Geotechnical and Tunnel Engineers

Deep Foundations and Soil-Structure Interaction
- 3D modelling
- Piled raft Foundation for high-rise buildings (taller than 50 story)

Deep Excavation and Temporary Structures
- New building foundation neighbouring 3 arch tunnels
- Temporary structures

Underground Structures (subway, disposal facilities, etc)
- Project Rendering
- 3D modelling of Subway Station

Unconventional Tunnel Intersections
- 3D Modelling of unconventional tunnel interconnections
- Stress contours

Shield TBM Analysis considering excavation sequences
- Construction field - Shield TBM
- Displacements contours

Slope Stability and Embankments
- SAM (Strength Reduction Method)
- SAM (Stress Analysis Method)

Vibration analysis for Earthquake & Blasting
- Dynamic effects of high speed train

Groundwater Flow – Stress coupled Analyses
- Stress-seepage semi-coupled analysis of 3D slope
- CFRD (Concrete Faced Rockfill Dam)

Terrain Geometry Maker
- DXF Data
- Meshed Terrain Geometry

2012 Enhancements

Alternative Stiffness Parameters for Ground Material

- Instead of using the Young’s modulus as a stiffness parameter, alternative stiffness parameters of G and E0ed can be entered. The alternatives are influenced by the input values of E and γ.

Slope Stability Analysis considering Construction Stages
- After construction stage analysis, slope stability analysis can be performed considering stresses of each stage in which internal loads are created as per excavations or embankments.

Output of Plastic Points
- Depending on the type of plasticity that has occurred, plastic stress points indicating plastic or failure states are displayed in small symbols which have different shapes and colours.
For more than last two decades, MIDAS Engineering Solutions have been used in designing prominent landmark structures around the world.

**Geotechnical Engineering Field**

### Tunnel & Underground Structures
- **Posiva’s ONKALO (Finland)**
  - Nuclear Waste Repository Facility
- **Trans-Hudson Express (USA)**
  - Stability Evaluation for Station Complex
- **King’s Cross Station (UK)**
  - Segmental & Sprayed Concrete Shaft Construction

### Excavation & Foundation
- **Dubai Tower (Qatar)**
  - Piled-raft Foundation of 84-story Building
- **Palazzo Versace & D1 Tower (UAE)**
  - Piled-raft Foundation of 80-story Building
- **Odeon Tower (Monaco)**
  - The Tallest Building in Monaco (Deep Excavation)

### Slope, Dam and Offshore Structures
- **Storage Reservoir Construction (Taiwan)**
  - 3D Slope Stability Analysis and Stress Check for Retaining Wall
- **Buhang Dam (Korea)**
  - Impervious Zone Stress Analysis for Gravity Dam
- **Navy Station’s Breakwater (Japan)**
  - Stability Check for Wave and Earthquake
Product Overview

Application Areas

SoilWorks 2012
Geotechnical Solutions for Practical Design

SoilWorks
7 Analysis Capabilities

Smart Functions for Main Distinct Features

SMART Modelling
CAD based Operating Environment

SMART Surface
Auto-generation of Surfaces for enclosed domains

SMART Mesh
Auto-generation of Mesh

SMART Support
Auto-generation of Boundary Conditions

SMART Technical Review
Technical Review to prevent analysis errors

SMART Results
High Quality Report auto-generation

SoilWorks
7 Analysis Capabilities

Application Areas

Slope
Excavation with Temporary Structures
Slope Stability Analysis for Embankments

Tunnel
FEM
Foundation
Dynamics
SoilWorks
7 Analysis Capabilities

Soft Ground
Consolidation Settlements Results in Construction Stages
Pile Arrangement & Analysis Results

Seepage
Seepage Analysis Results due to a Cut-off Wall
Evaluation of Adjacent Structures under Blasting Vibration

7 Analysis Capabilities

SoilWorks
7 Analysis Capabilities

Smart Functions for Main Distinct Features

SMART Modelling
CAD based Operating Environment

SMART Surface
Auto-generation of Surfaces for enclosed domains

SMART Mesh
Auto-generation of Mesh

SMART Support
Auto-generation of Boundary Conditions

SMART Technical Review
Technical Review to prevent analysis errors

SMART Results
High Quality Report auto-generation

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Product Specifications

- **Tunnel Module**
  - Construction stage analysis
  - Static nonlinear analysis
  - Coupled analysis with seepage analysis results
  - Convenient parametric analysis through change in Ko
  - Lining analysis reflecting tapered sections

- **Foundation Module**
  - Settlement checks simultaneously performed for various foundation types & sizes under given ground conditions
  - Pile foundation displacement checks using P-y analysis (single/group piles)
  - Analysis reflecting pile head conditions (fixed/hinged)

- **Dynamic Module**
  - 1-D ground response analysis
  - 2-D equivalent linear (SSI) analysis
  - Time history dynamic analysis (linear)
  - Response spectrum analysis
  - Built-in database of worldwide earthquake records & auto-generation of seismic waves

- **Slope Module**
  - Simultaneous analyses for dry/rainy seasons and in earthquake conditions
  - Simultaneous calculations of safety factors for limit equilibrium analysis and shear strength reduction analysis
  - Limit equilibrium analysis reflecting the intensity of precipitation or seepage effects

- **Soft Ground Module**
  - Primary consolidation settlement analysis pertaining to construction stages and one time embankment
  - Parametric analysis for drainage types and spacing
  - Simultaneously checking the 1-D consolidation theory & finite element analysis

- **Seepage Module**
  - Steady state seepage analysis
  - Transient seepage analysis
  - Prediction of upward/downward seepage forces
  - Construction stage analysis & slope stability analysis coupled with pore water pressure & effective stress calculated from seepage analysis

For more than last two decades, MIDAS Engineering Solutions have been used in designing prominent landmark structures around the world.
NFX 2012
Total Analysis Solutions for Optimum Design in Multi-disciplines

Product Overview

Application Areas

- Construction & Engineering

Static/Fatigue Analysis
Steel structure’s connection

Vessel Collision Analysis
Cable stayed bridge pier

Shape Optimisation
Bridge Pier

Nonlinear Contact Analysis
Draw Bridge

CFD Analysis
Stability Check of a Bridge Resisting Wind

Blade Impact Analysis
Local Failure of Blades due to Impact

Total Analysis Solutions for Optimum Design in Multi-disciplines

- Linear Static Analysis
- Modal / Buckling Analysis
- Heat Transfer / Thermal Stress Analysis
- Nonlinear Static Analysis
- Explicit Dynamic Analysis
- Fatigue Analysis / Composite Material Analysis
- Optimum Design
- CFD Analysis
- High Performance Parallel Solvers
We always care for our Clients’ Success!

MIDAS events worldwide (conferences & seminars)

USA | United Kingdom | Russia | Spain | Turkey | Czech

Italy | Japan | China | India | Indonesia | Mexico

MIDAS Web Support

MIDAS Online Training

MIDAS User Support System

Join our FREE online training at www.MidasUser.com

- MIDAS Online Training
- Free Trial Version available
- Tutorials (Basic, Advanced)
- News & Events (new release, etc.)
- Q&A board
- and more...

- Free
  Our MIDAS Webinar Service is provided to all participants at no cost!

- Interactive
  It allows full participation between the audience and the presenter, providing Q&A sessions.

- Customised
  By submitting your areas of interest prior to the session.

- Q&A Service
  Q&A service provides prompt reply within 24 hours of a customer’s inquiry related to the technical matters stemming from the software use. Also, for the security of a customer’s project, personalised service is provided.

- Remote Technical Support Service
  Remote technical support service actively responds to the customer’s inquiry by sharing a customer’s PC screen in real-time with the technical support representative to resolve the inquired problems.