

STRIP

Structural Investigation Processor



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Welcome to Shear3D Consulting. Home to Structural Engineering Professionals.

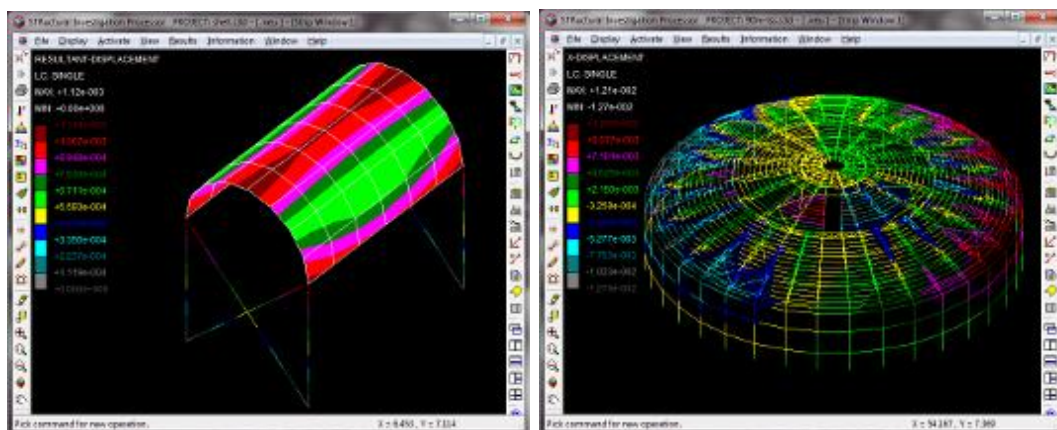
Product Information Brochure



Structural Investigation Processor (STRIP™) is software application designed to enable engineers to investigate structural modeling, behavior under external forces, visualize induced internal forces. It is designed for Windows® operating systems.

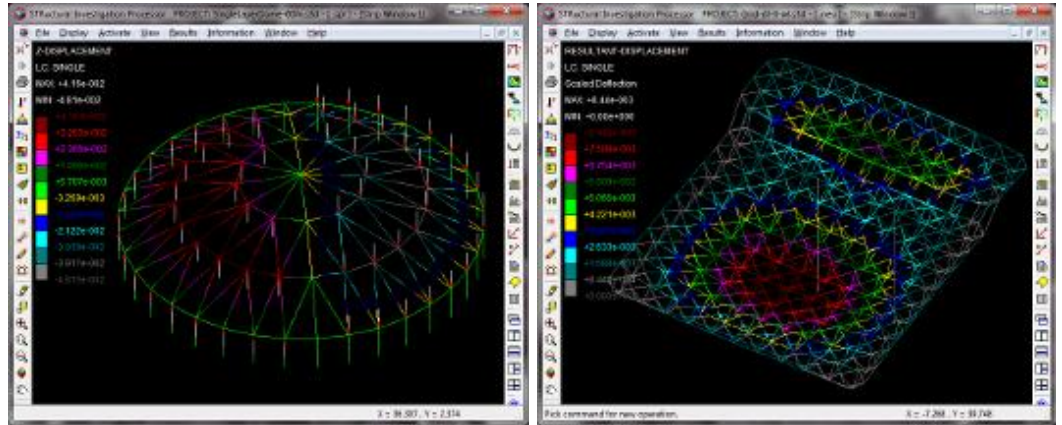
It can be used to investigate and analyze 3D structures modeled using Truss, Beam and Plate/Shell elements. It can be used independent of any modeling and analysis software package through a Neutral Data Format supported by STRIP. It provides a comprehensive set of features to enable a structural designer to investigate, interpret and understand the accuracy of structural modeling and the behavior of the structure. This enables engineers to design the structure with sound engineering judgment.

STRIP supports a neutral format to share model and analysis result data with third party structural applications. Neutral format can also be used import and visualize data generated by third party applications.



STRIP is designed to support structural model data generated from DXFMOD and SLAM. The accuracy and success of the analysis of a structure by finite element analysis depends of the accuracy with which the structure is geometrically modeled, the definition of appropriate boundary conditions and loads. STRIP provides the following features check for accuracy of modeling.

- Structural element activation for display by element attributes
- Element identification by multi-color display
- Element/Node numbering
- Element information display
- Hidden line removal
- Shrunken element display
- Graphical restraint and force display
- Boundary line display
- Multiple window display
- Save data in neutral file format for interoperability

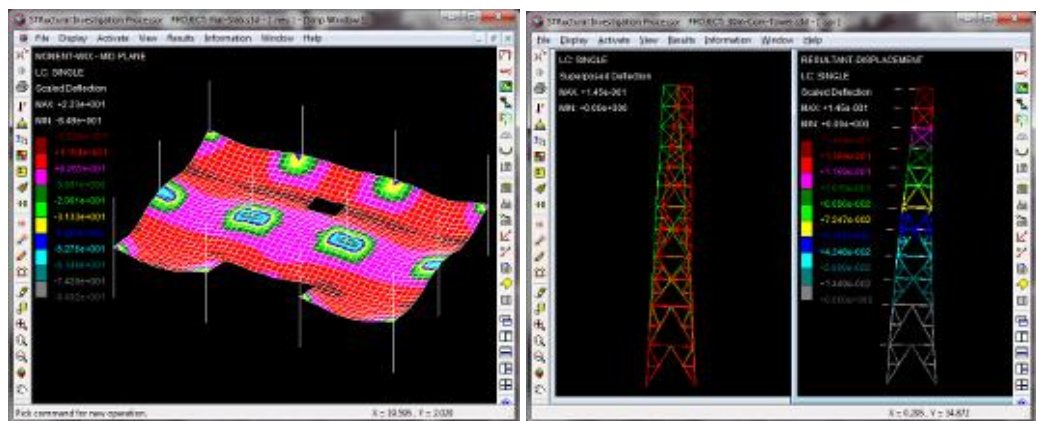


STRIP provides the following features for response visualization to understand the behavior of the structure.

- Deflected shape of the structure
- Deflection and Stress contour diagrams
- Structure Animation
- Bending Moment and Shear Force diagrams
- Force fringes of Truss and Beam elements

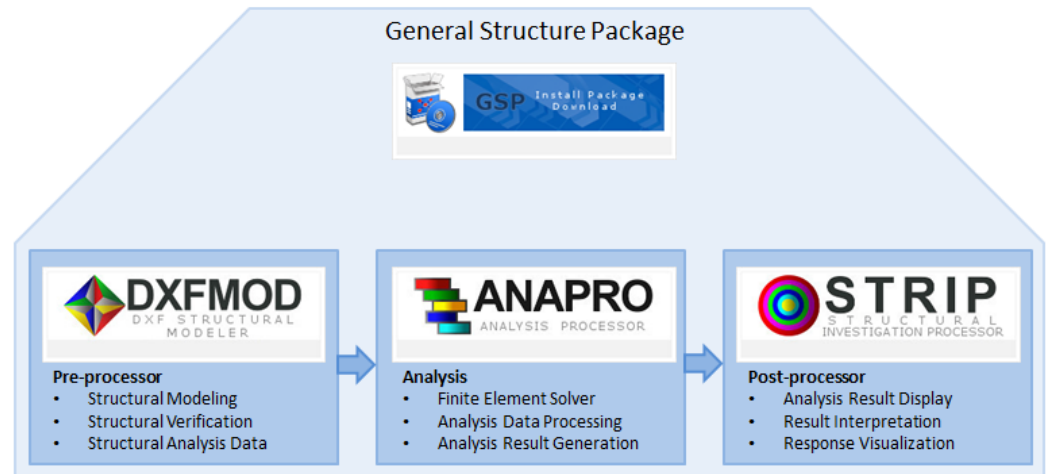
STRIP provides the following features for extensive reporting and sharing.

- Summary output of selective results
- Detailed results output for different load cases and combinations
- Results in DXF format for graphical presentation
- Hard copy prints of graphical display
- Neutral data format to support to interface third party applications
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Solution Package

DXFMOD is released as part of General Structure Package. This package includes applications that provide user friendly interface that enables engineers to model, preprocess, analyze and post-process general structures. Also provides DXF interface to leverage CAD data as input for modeling and output for engineering reports.



About Software Products

We share decades of experience in consulting and software development, in the form of convenient and efficient structural engineering software applications, to solve every day structural engineering challenges with ease and confidence. These applications help to take a structural engineering problem from conceptual creation to engineering analysis to final design and drawings. They have been proven by use in modeling, analysis and design of small to large projects by practicing structural engineers in-house and other reputed consulting companies.

All applications are designed to help structural engineers and provide:

- End to End solution for structural engineering problems
- Easy to use user interface with least learning curve
- Detailed online help documentation access
- Eliminate monotonous tedious tasks and eliminate errors
- Analyze and Design structures with ease and confidence
- Reduce turnaround time and provide timely service to clients

Software Products

Shear3D Consulting has a full set of comprehensive structural engineering applications. Overviews of some of the products that are currently being made available are given below.



Dialog based interactive application to quickly design /verify / detail individual structural components. BEAM, COLUMN, SLAB, ISOLATED FOOTING and COMBINED FOOTING. -- FREE Design Modules –



Application to model general structures for structural analysis. Leverages DXF format to convert CAD model to structural models. Provides pre-processing features to verify accuracy of modeling.



Finite element method based solver to analyze structural models. Provides Truss, Beam, Spring, Plate/Shell elements needed to simulate and analyze normal structures by structural engineers



Application to post-process structural analysis data. Provides extensive set of features to understand the behavior of structures. Designed to work with with other 3rd party structural model and analysis tools using neutral format.



Application to model multi-level RC frame-slab building structures subject to static and seismic load conditions as per IS code requirements. Provides features for easy and accurate modeling, with reduced modeling time.



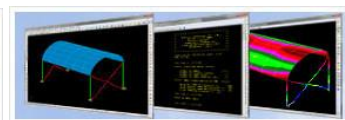
Application to design and detail RC structure as per IS code in an interactive or automated environment. Provides features to post-process analysis data to understand the behavior of structure, design and generate detailed drawings.

Software Solutions

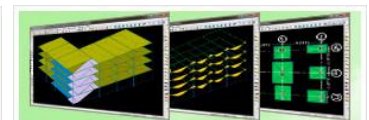
We provide software solutions to the needs of structural engineers. Our solutions are packaged in three convenient forms catering to the various levels of solution required by structural engineers.



This package includes applications that provide user friendly interface to design, verify and detail individual structural components in an interactive environment. Very useful for everyday quick design and checking..



This package includes applications that provide user friendly interface that enable engineers to model, preprocess, analyze and postprocess general structures. Provides DXF interface to leverage CAD data as input for modeling and output for reporting..



This package includes applications that provide user friendly interface that enable engineers to model, analyze, design and detail RC multilevel structures with ease and efficiency, increasing accuracy, confidence and reducing overall time..

Contact

Please visit us on the web at www.shear3d.com for more details on comprehensive solutions offered by Shear3D Consulting. If you have questions, please contact us through email at support@shear3d.com.