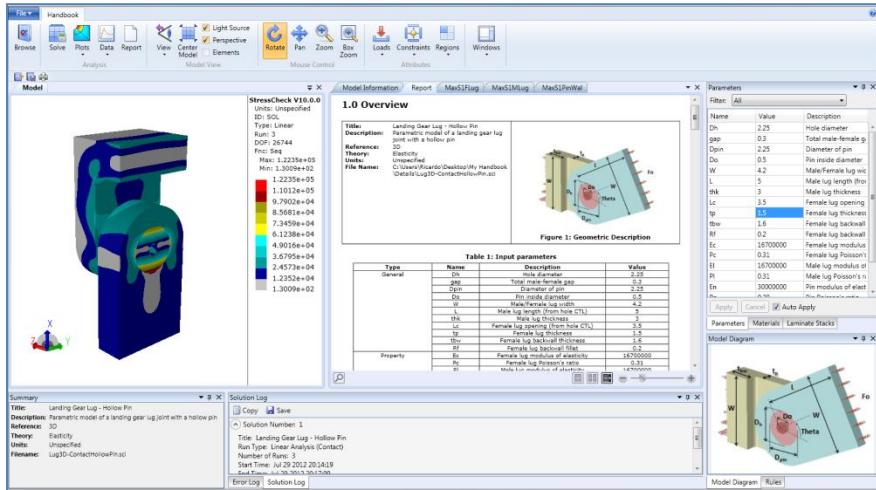# CAE Handbook

64-bit CAE Handbook v10.1 increases productivity and serves as a repository for corporate design knowledge. A simple and intuitive graphical user interface enhances the usability and functionality of the StressCheck handbook framework which is deployed as a stand–alone desktop application.

CAE Handbook Highlights

CAE Handbook provides access to all the technology and functionality built into StressCheck Professional v10.1 in an intuitive and simple to use graphical user interface, designed to provide standard solutions for routine design and analysis tasks in a very user-friendly environment, with confirmation of reliability. Parameterized models of complex parts and details developed by qualified analysts are delivered in a very convenient and highly reliable handbook environment for use by designers and analysts.

Benefits

CAE Handbook serves as a repository for standardization and corporate design knowledge. No longer constrained by the limitations of classical handbooks, automated reports and results in graphical and tabular form provide assessment of the solution quality and focus on the appropriate criteria for design or certification. Whether you are an analyst or a designer – CAE Handbook is an essential tool for recurring analysis tasks.
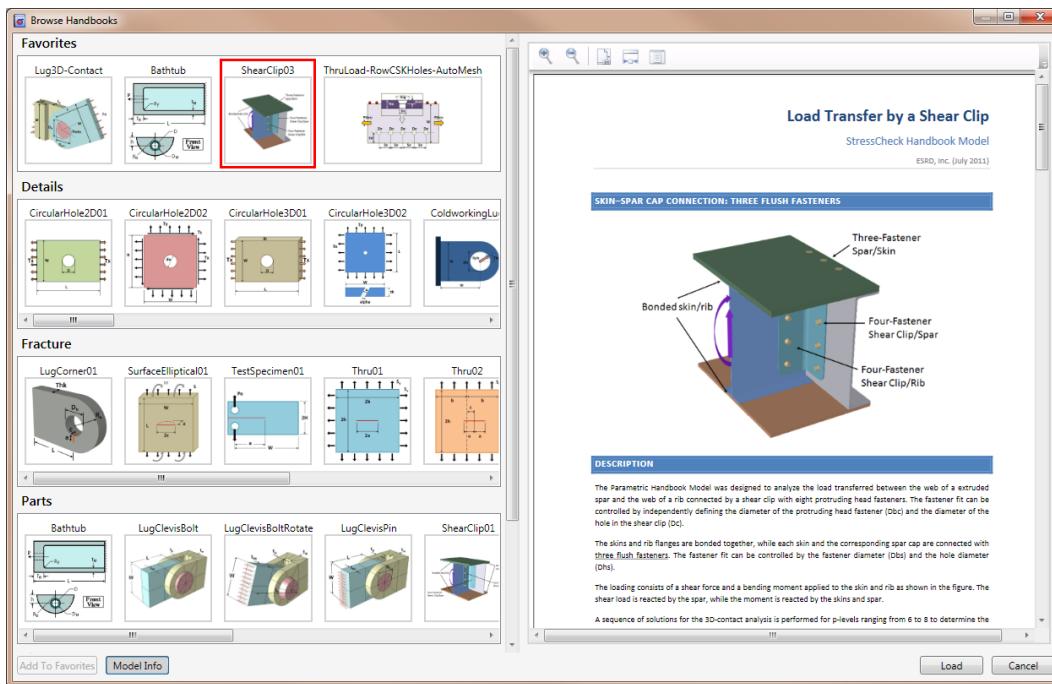
Key Benefits

- Framework for standardization or recurrent analysis tasks.
- Preservation and accumulation of corporate knowledge with increased reliability.
- Solutions created by FEA analysts and deployed for non-FEA experts.
- Consistent results produced by tested and approved analysis procedures.
- Information document available for each solution with detail model description and expected results.
- A simple and intuitive user interface to deploy solutions of much greater complexity than those available in traditional engineering handbooks.
- Solution obtained with StressCheck Professional, verified by p-extension.
- Automatic reporting of results ready to be printed and archived.
- Built-in Results Viewer provides dynamic viewing of the FE mesh, contour plots and more.

CAE HANDBOOK

A powerful, reliable tool for detailed stress analysis of parametric models and complex structures – from unique modeling capabilities, to advanced analysis technology, to powerful post-processing functions. Only StressCheck brings this power to you in an easy to use framework. See why CAE Handbook can be one of the most important tools in your design and analysis toolbox. Try CAE Handbook today!

CAE HANDBOOK

CAE Handbook provides standard solutions for routine design and analysis tasks in a user-friendly environment – with confirmation of reliability. CAE Handbook is not only a library of parametric models, it is also a framework for the creation of new component models, for the standardization of design and analysis procedures, and serves as a repository for preserving the corporate knowledge of experts.

CAE Handbook supplements classical handbook solutions and legacy tools in various ways:

- CAE Handbook allows for a much greater variety of parametric models than classical handbooks. This is because the analysis is powered by an advanced FEA technology.
- You are no longer constrained by over-idealizations typical of classical handbooks that do not accurately describe real world problems.
- Anisotropic materials, orthotropic materials, and elastic-plastic materials are analyzed with ease.

Parameterized models of complex structures can be developed by a qualified analyst and delivered in a very convenient and highly reliable handbook environment. This repository of corporate knowledge can be used by designers and analysts, experts and non-experts. CAE Handbook models can include virtually all relevant design variables necessary to define the configuration. Importantly, the CAE Handbook framework enables you to store all relevant results. A report is generated automatically and includes an assessment of the solution quality, based on convergence estimates and specified failure criteria. All the powerful post-processing options of StressCheck are available to CAE Handbook users.

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