

Static Analysis Engine

Static Analysis Engine is a part of the standardized FEA tool integrated in JL Analyzer. When you purchase JL Analyzer, you will find this engine powerful enough to perform all your static Finite Element Analysis problems. Once your geometry is drawn and boundary data is assigned, by using the static analysis mode, you can immediately obtain simulations and results on your geometry.

By adopting a finite element theory approach along with its unique software architecture, the Static Analysis Engine is capable of solving complex stress and strain problems, whether they are two or three dimensional. Serving as the foundation of other analysis engines, the Static Analysis Engine can be used for multiple structures ranging from simple truss, beam, 2D plate, to complicated 3D shell or solid structures, making it suitable for engineers and designers from all disciplines and all levels. In addition to these fundamental applications, Static Analysis Engine also offers advanced features for experienced stress engineers. These include: assigning pre-load criterions such as predefined stiffening constant with stiffening effect flag, predefined displacement with P-D flag, combining static loading with results from other analysis engines like temperature thermal loading in either static mode or transient mode.

You may very much find Static Analysis Engine to be one reason that makes JL Analyzer to be the most affordable and complete FEA package available today. It offers you parallel analysis performance comparable to FEA software that cost up to 3-4 times more, yet the same time, gives you a friendlier user-interface for you to learn and to master.

