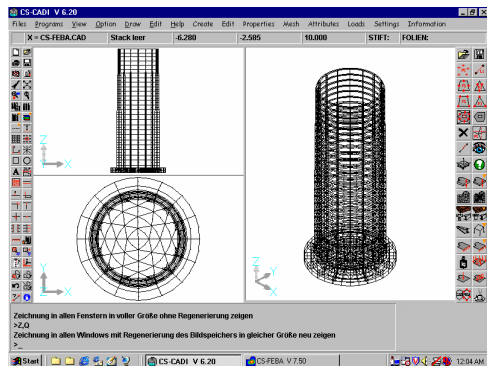


# EASyFEM

## (Engineering Analysis System Using Finite Element Method)

EASyFEM is a 3 Dimensional Finite Element Analysis software for Civil and Mechanical Engineers. The software supports a wide variety of 1 Dimensional (skeletal elements), 2 Dimensional (plane stress, strain, and axisymmetric elements) and 3 Dimensional (solid elements) and plates/shell elements. The analysis types are linear static and dynamic.



### Model Creation

EASyFEM has its own CAD user interface for graphical input data creation. Absolutely easy to use preprocessing technology is adopted for quicker modelling.

### Meshing

EASyFEM supports both Mapped mesh techniques and Automatic Free Mesh generation methods. Mesh size, shape, number controls.

### Attributes

The concept of geometry based attributes of EASyFEM helps you at various stages of model preparation and postprocessing.

### Properties

EASyFEM supports libraries of materials and cross section for easier and standardised input data mechanism.

### Supports

Regular boundary conditions, spring boundaries, prescribed displacements, inclined boundary conditions.

### Special features in Preprocessor

Master-slave connections, soil supports for machine foundations or mat foundations for structures

### Scripting

Lisp like command interface language for faster data creation or importing from outside

### Loadings

Multiple loadcases interface, point, line, area loading, self weight, centrifugal loads, temperature loads

### Intelligent features

Mesh quality detection, bandwidth optimiser, coincident entities corrector, mesh independent loads

### Utilities

Information tables, visualisation controls, display settings, color editing, text controls

### Analysis

Modular and fast with interrupt facilities, Static and Free Vibration Analysis

### Results Display

Contour form, Vector form, SFD/BMD like display, Grid format, deformed shapes

### Queries

Maximum, minimum, range, entity wise quering of results

### Result types

Basic results of analysis, derived results for maximum conditions, failure theory based results

### Report Generation

Intelligent report generation module with total control of the user on the contents.

### Load case combinations

User defined Loadcase combinations for summation, worst positive and negative results calculations

### Special features of Post Processor

Animation of model for detail behaviour and tolerance checking

### Printing

Color printing of geometry, mesh, results etc.

### Applications of EASyFEM

Builidngs, Chimney/Silo, Domes/Sloping Roofs/Pyramids, Staircases, Box Girder Bridges, Dams, ESR, Culverts/Aquaducts, Tunnels, Water Tanks.

