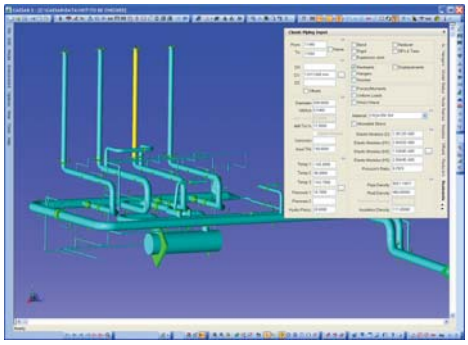
COADE ENGINEERING SOFTWARE

Plant Focused.
*Industry Driven.*SM



Cutting-edge annotated graphics make it easy to access or review analysis input data.

CAESAR II®

CAESAR II is the Pipe Stress Analysis standard against which all others are measured. CAESAR II evaluates structural response of piping systems and their code-defined stresses caused by a wide variety of loads in accordance with many international standards.

Data Collection
The CAESAR II spreadsheet collects and displays all data that defines a piping system model. Input can be reviewed or modified on an element-by-element basis, or datasets can be selected to make global changes. Data can also be accessed via CAESAR II's cutting-edge graphical output.

Graphics
The CAESAR II input graphics module quickly identifies most input modeling mistakes. It provides a useful indication of the piping system's flexibility and makes it easy to identify problem areas. Color-coded stress models and animated displacements for any stress load case are also available.

Analysis Options
Besides the evaluation of a piping system's response to thermal, deadweight and pressure loads, CAESAR II analyzes the effects of wind, support settlement, seismic loads and wave loads. Nonlinear effects such as support lift off, gap closure and friction are also included. CAESAR II selects the proper springs for supporting systems with large vertical deflections. Dynamic analysis capabilities include modal, harmonic, response spectrum and time history analysis.

Output
The CAESAR II program includes an integrated error checker that is run at the completion of the input specification. This error checker analyzes the user-specified input and checks it for consistency from both a "finite element" and "piping" point of view.

Content
CAESAR II incorporates table look-ups for piping materials, pipe sizes, valve/flange weights and lengths, expansion joint assemblies, structural steel sections, spring hanger catalogs and material properties including allowable stress. This ensures correct data is used for each analysis. CAESAR II applies the rules of most piping codes used around the world.

Interfaces
CAESAR II incorporates the industry's first and only seamless bi-directional link between CAD and analysis. This link to COADE's plant design package—CADWorx Plant—allows the passing of design and analysis data between these packages with no data loss.

Features
- Regularly updated international piping codes
- Buried pipe, FRP, & structural steel modeling
- Equipment post processing
- Material database
- Training seminars available
- Fully supported by development engineers
- Enhanced regularly for piping code updates
- Bi-directional links to CADWorx Plant

Technical Specs
- Runs on Windows 2000 and Windows XP Pro

Application Areas
Process and Plant Design, Piping, Equipment, Petrochemical, Chemical, Power, Food, Beverage, Brewing, Pharmaceutical, Water Treatment, Shipboard Piping.

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