



## BENEFITS:

- Vessel Design and Analysis
- Exchanger Design and Analysis
- Tubesheet Design and Analysis
- Rectangular and Non-Circular Vessel Analysis
- Individual Component Analysis
- Cutting-edge Graphics
- Design Tools and Wizards
- Comprehensive Error Checking
- Saddle, Leg, and Skirt Design
- Analysis for Horizontal Shipping of Vertical Vessels
- User-definable Reports
- Wind Analysis
- Seismic Analysis
- International Vessel Codes
- Extensive Material Databases
- Steel Databases and Modeling
- Links to Intergraph CADWorx® Plant Professional
- Links to Intergraph PV Fabricator™

## PV ELITE®

**Intergraph® PV Elite® is a complete solution for vessel and heat exchanger design, analysis, and evaluation. Users of PV Elite have designed equipment for the most extreme uses and have done so quickly, accurately, and profitably.**

### DATA COLLECTION

PV Elite makes defining pressure boundary conditions for vessels and exchangers easy, even for load sets that require significant data input. PV Elite streamlines data entry by breaking the input down into sensible subsets. Help on any input item is only a keystroke away.

### GRAPHICS

PV Elite's graphical representation of analysis models helps ensure confidence in the input and results. With PV Elite, you can view and manipulate analysis models with complete ease.

### ANALYSIS OPTIONS

PV Elite performs calculations in accordance with ASME Section VIII Divisions 1 & 2, PD 5500, and EN 13445. Rules from API 579 (Fitness for Service) are also included for evaluating the current state and remaining life of existing vessels.

### OUTPUT AND REPORTS

To simplify inspection requirements, PV Elite lists the most important equations, such as required thickness and maximum allowable working pressure (MAWP), and also groups results by type (e.g., internal pressure, external pressure, bending stress, nozzles, and flanges). It summarizes overall results where it identifies the element or detail controlling the overall vessel MAWP.

### MATERIALS AND CODES

PV Elite is a global package with international code rules plus extensive region-specific content. Vessel material definitions, piping and steel component data, local wind loads, and local seismic loads of many regional markets are all included.

### INTERFACES

PV Elite interfaces with other popular software packages for finite element analysis, foundation design, and drafting. PV Elite also shares a bi-directional link to Intergraph CADWorx® Plant Professional module and PV Fabricator™.

## PV FABRICATOR

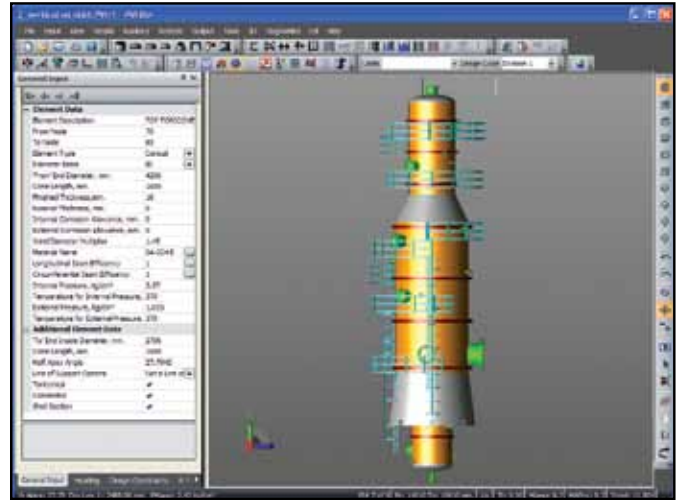
PV Fabricator has advanced tools for the accurate and speedy production of fabrication deliverables of pressure vessels and heat exchangers. When linked to PV Elite, PV Fabricator can deliver substantial savings over existing drafting methods.

## TECHNICAL SPECIFICATIONS

- AutoCAD®-compatible
- Microsoft® Windows®-compatible

## APPLICATION AREAS

- Beverage
- Brewing
- Chemical
- Equipment
- Food
- Offshore
- Petrochemical
- Pharmaceutical
- Piping
- Power
- Process and Plant Design
- Shipbuilding
- Water Treatment



PV Elite is an efficient analysis tool for a wide range of applications.

## ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer and smarter. The company's software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation and data management of plants, ships and offshore facilities. Intergraph SG&I provides geospatially powered solutions,

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