SOFTWARE & TOOLS

THE E²G DIFFERENCE

BUILT BY EXPERTS

Pioneered development of

FFS & RBI

Primary authors of

WRC 528 & 562

Lead investigators on

API 571 & 579

Development team uses its facility and owner-user experience to solve industry-specific challenges

Technical accuracy - all software incorporates latest Codes and Standards

Results are more refined than competing software products

INDUSTRIES

Biofuels & Renewables

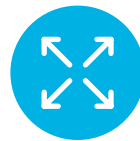**Chemical & Specialty Chemicals**

Oil & Gas

Petrochemicals

TURN INPUTS INTO INSIGHTS

State-of-the-art software that keeps you and your asset management projects moving forward. Use software that is designed to simplify your day-to-day tasks while helping you develop expert-level analysis skills.

E²G | The Equity Engineering Group, Inc. develops software that supports informed decision-making and strategic planning for the safe and efficient operation of industrial assets. The fully integrated software supports all aspects of equipment lifecycle management by integrating the latest API and ASME codes and standards with the depth of E²G's engineering experience.

DEVELOP INSPECTION AND MAINTENANCE PLANS USING ACCURATE DATA ANALYSIS

SCALE SOFTWARE TOOL TO MEET ORGANIZATIONAL NEEDS AND BUDGET

IMPROVE FACILITY-WIDE COMMUNICATION WITH FULLY INTEGRATED SOFTWARE

OPTIMIZE INSPECTION PLANS: API RBI SOFTWARE

Optimize your inspection plans by systematically factoring risk into your decision-making by identifying areas of vulnerability and reducing equipment performance uncertainties. API RBI is the industry's only fully compliant API 581 calculator that will help you plan maintenance strategies efficiently and accurately.

- Remove uncertainty by evaluating your equipment and refocusing inspection efforts to the highest-risk items
- Identify high- and low-risk equipment to optimize inspection schedules and reduce cost
- Identify performance trends and operational problem areas with dynamic data visualization
- Implement quantitative RBI programs using guidance that accounts for applicable damage mechanisms and risk-based inspection plans

GAIN ACTIONABLE INSIGHTS: SagePlus™

Achieve safer operations by evaluating equipment design and in-service conditions to make informed engineering decisions on the life of fixed equipment, piping, and structures. SagePlus is an extensive collection of mechanical engineering modules for conducting comprehensive evaluation and analysis into the design, condition, and compliance of new and in-service equipment.

- Identify fixed equipment integrity issues and make informed decisions whether to run, replace, or repair
- Solve industry-specific challenges with software developed using facility & owner/user knowledge and experience
- Accurately assess fixed equipment remaining life with new and alternative analysis techniques

PREDICT FUTURE OUTCOMES: DamageWeb™

Knowledge is powerful – understand the maze of damage mechanisms found in your facility and select the best inspection method for each type of damage mechanism to reduce costly fixed equipment failures. DamageWeb software is a quick reference guide that specifically helps inspection and maintenance personnel streamline the process of pinpointing damage mechanisms and potential risk areas.

- Identify the best maintenance and inspection method to address specific damage mechanisms
- Cross-reference API 571 and WRC 589 for accurate damage mechanism identification and classification
- Visualize the variety and location of typical damage mechanisms in refining units with the built-in process flow diagrams (PFDs)
- Improve communication and understanding throughout your organization with customized PFDs by process unit or process

COMPLEX ANALYSIS MADE SIMPLE: eec

Leverage the convenience of the cloud-based platform to perform complex engineering calculations that are aligned with the latest industry codes and standards. With over 40 tools at your fingertips, the Equity Engineering Cloud (eec) platform helps you make effective and informed decisions to keep your industrial assets operating safely and reliably.

- Enhance operational understanding with the streamlined input options for the most frequently encountered problems
- Scale available software tools to meet plant, component, or asset integrity needs
- Increase productivity and grow your analysis capabilities with the guided input workflow
- Access the most comprehensive collection of material codes and standards to ensure code compliance

» SIMFLEX-III

SIMFLEX-III software allows you to easily create piping stress models, visualize geometry and support locations, compare results to ASME piping code requirements, and analyze the effects of both dynamic and static stresses.

» IntelliJoint

IntelliJoint software is a one-stop solution for the evaluation and optimization of bolted joint assemblies. The extensive analysis capabilities help you to improve the safety and reliability of existing flanged joints and streamline designs for new equipment.

» eecHotTap

eecHotTap software predicts peak wall temperature, maximum cooling rate, and the shortest cooling rate around the weld region. You will solve a complex set of welding challenges with this simple tool.

WHY USE E²G'S CLOUD-BASED SOFTWARE?

Fast and easy implementation - no installation required

Faster calculations using superior performance hardware

Secure access from anywhere in the world, 24/7

Access to the latest software updates

Maximize budgets and infrastructure

Flexible and scalable software licensing options