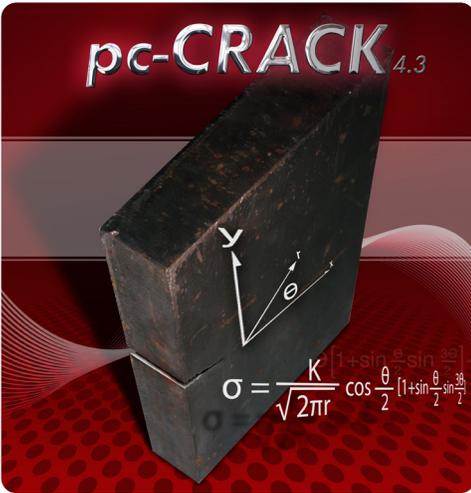




# pc-CRACK FRACTURE MECHANICS SOFTWARE

Analyze Predict Flaw Behavior and Crack Growth Rates



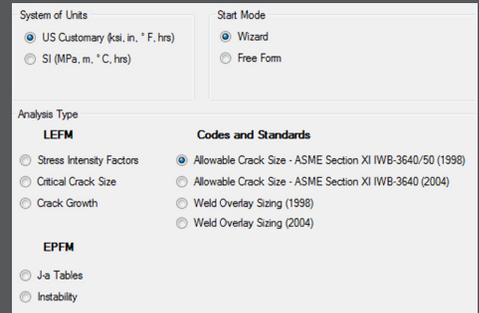
Structural Integrity Associates, Inc.® pc-CRACK™ software has been an industry leader in fracture mechanics software. The Microsoft® Windows® based software analyzes and predicts flaw behavior, including calculation of crack growth rates and critical crack sizes for pressure vessels, piping, turbines, and structures, with immediate display of analysis results. pc-CRACK applications include ASME Code Section XI flaw evaluations as well as weld overlay design.

## WHY pc-CRACK

pc-CRACK expands the capability of your engineering staff by providing an easy-to-use tool that allows users to rapidly perform sophisticated fracture mechanics analyses. With pc-CRACK, you can easily formulate decisions (and generate support documentation) regarding the effects of structural flaws in a wide variety of materials and components. A demo version of the software is available for free.

## SOFTWARE FEATURES

- LEFM and EPFM Solutions
- Graphical User Interface Based Workflow
- Stress Intensity Factor Calculations
- Crack Growth Calculations
- J-a Tables and Crack Instability Determination
- Built-in Materials Library
- Single Edge and Double Edge Cracks
  - Standard Specimens
  - Plates
  - Hollow Cylinders
  - Solid Cylinders
  - Holes
  - Nozzles
  - Welds
  - Compound Crack in Hollow Cylinders
  - User Defined (1-DOF & 2-DOF)



Analysis Options

## CODES AND STANDARDS

- ASME Codes and Standards Qualifications
  - Allowable Crack Size Calculation
  - Weld Overlay Sizing Design
- Nuclear Quality Assurance

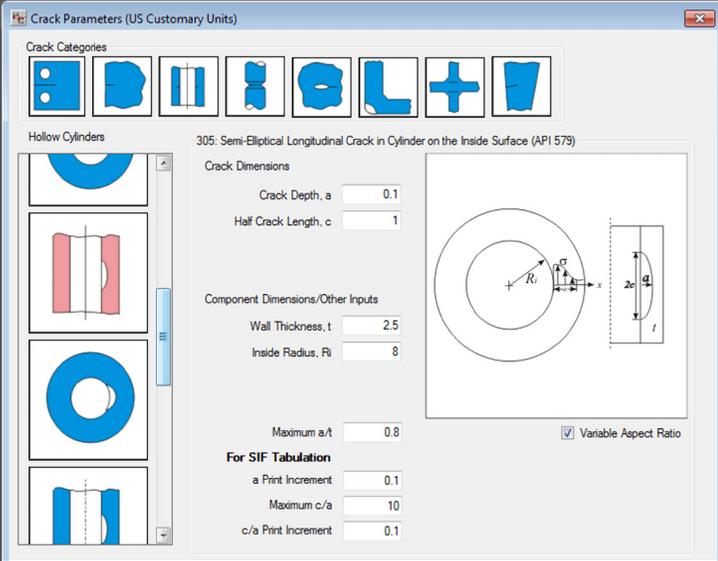


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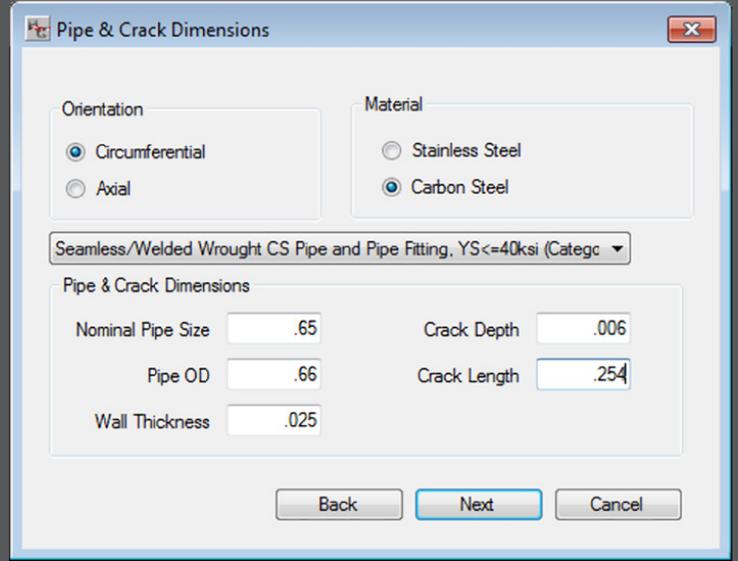
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1-877-474-7693

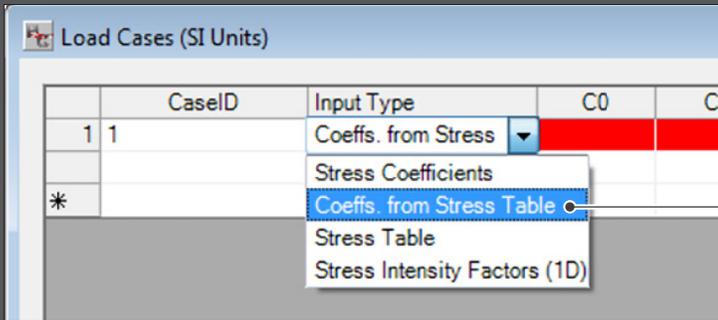
5215 Hellyer Avenue Suite 210  
San Jose, CA 95138



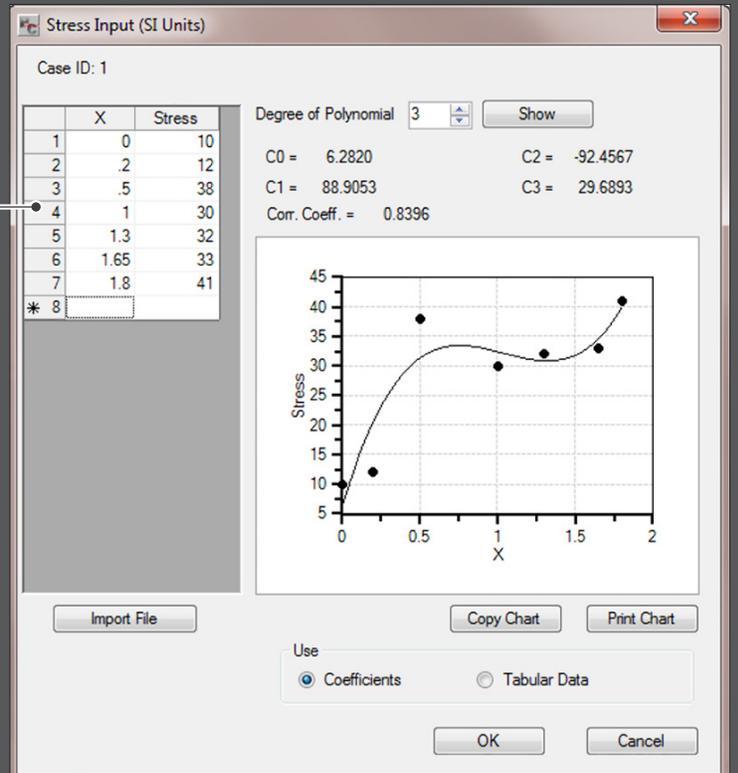
Available Crack Models



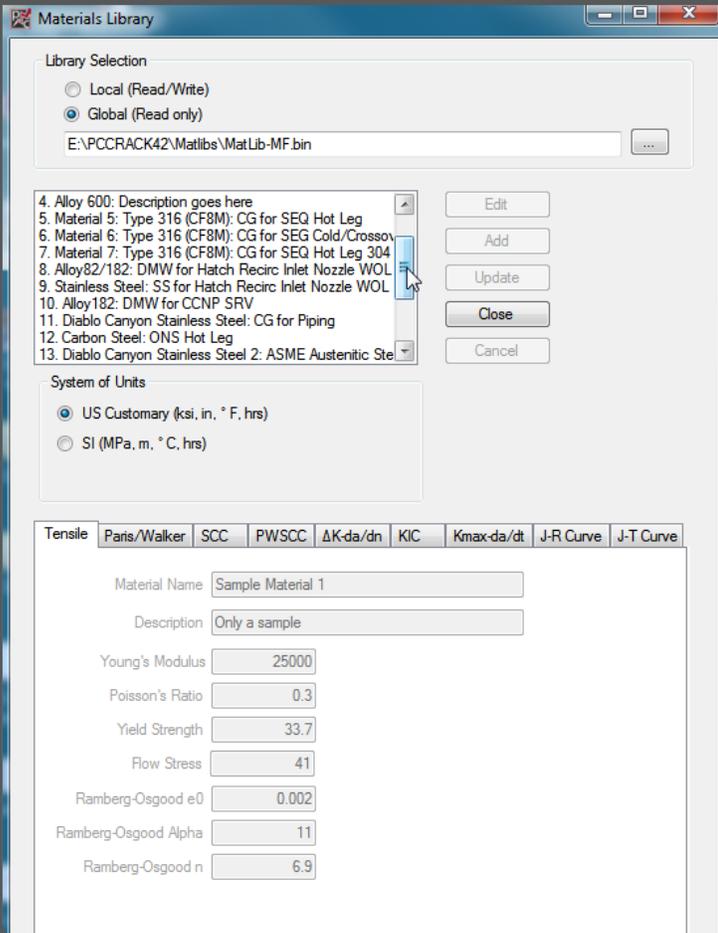
Crack and Pipe Dimension Inputs



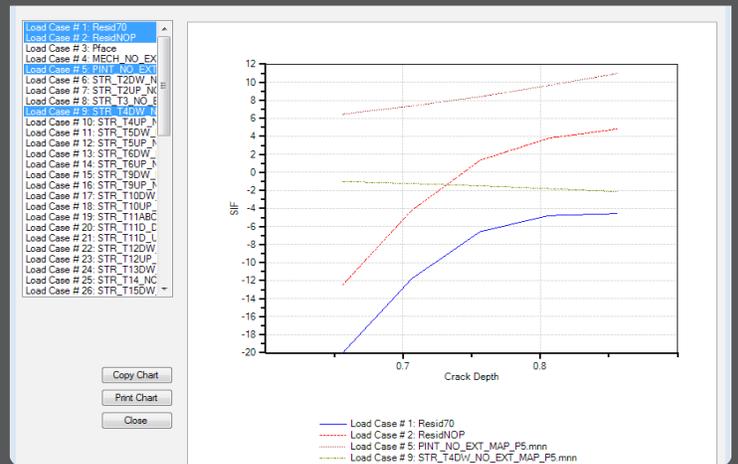
Load Input Options



Stress Table Input and Curve Fit Capability



User Customizable Materials Library



Stress Intensity Factor Results