



V2 Specifications

CAD Geometry and Mesh

- Direct CAD: Parasolid (SolidWorks, Solid Edge, Unigraphics)
- CATIA, ACIS, STEP, IGES, NASTRAN, PATRAN, ANSYS, GAMBIT, TGrid, and FLUENT
- Automated tools for flow volume creation, clean-up, and simplification (defeaturing)

General Modeling Capabilities

- Compressible and incompressible flow
- Three-dimensional, steady-state flows
- Laminar and turbulent flows, with the most advanced turbulence modeling capabilities in the industry
- Convection and conduction heat transfer
- Automatic solution process
- Internal and external flow

Boundary Conditions

- Pressures, velocities, mass flow rates, and volumetric flow rates at inlets and outlets
- Symmetry planes
- Walls, with or without internal conduction, and moving belts
- Heat exchangers

Material Properties

- Comprehensive database of gas, liquid, and solid properties
- User sites can add custom materials to local database installations
- Users can directly enter properties for additional materials

Meshing

- Completely automatic and transparent
- Resolution and element types automatically tailored for high efficiency and desired accuracy

Interface, Graphics, Postprocessing, and Reporting

- Wizard-driven GUI that is easy for new and infrequent users to learn and use
- Automatic summary reports of flow and heat transfer information
 - ▶ Minimum, maximum, and average pressures, temperatures, and velocities at inlets, outlets, and walls, and throughout the domain
 - ▶ Pressure drops between all inlets and outlets
 - ▶ Heat transfer coefficients on walls
 - ▶ Net mass and heat flow rates
- Convenient visualization of pressure, velocity, and temperature fields on easily swept planes, iso-surfaces, and boundaries
- Automatic flow pathline animations
- Automatic HTML reports with embedded alerts and graphics

Managed Deployment and Collaboration

- Remote Simulation Facility at Fluent Inc.
- Standard peer-to-peer collaboration
- Users can simultaneously connect to shared sessions and collaborate in real time across the world

Online Help and Documentation

- Complete hypertext-based online documentation
- Comprehensive User's Guide
- Tutorial guide, with model-specific examples
- Online access to a FloWizard-specific website with product and support resources
- Online "Getting Started" examples

Supported Hardware

- FloWizard is supported on Windows 2000 and Windows XP

Find out more...

Contact your local Fluent office to find out more about how FloWizard can benefit your development process:

www.flowizard.com • info@fluent.com • 1-603-643-2600 (US)

