

Aspen Simulation Workbook™

Deploy engineering models and automate conceptual design workflows using Microsoft® Excel

Aspen Simulation Workbook provides seamless integration between AspenTech's engineering tools and Microsoft Excel, allowing you to deploy models to a wider range of users. The result is new levels of enhancements to your company's bottom line through improved productivity during conceptual design and the expanded use of process models in operations decision-making.

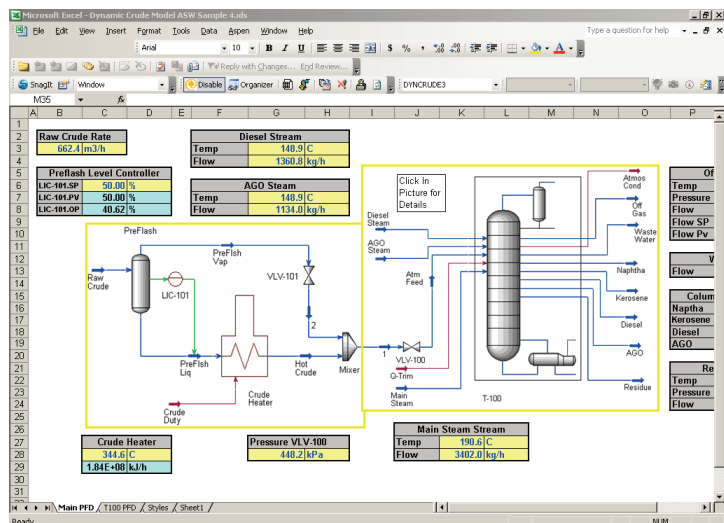
|||||| Leveraging Process Models to Create Added Value

Simulation models are powerful tools for process design and retrofits, yet many companies fail to leverage models beyond the design process due to the complexities involved. Modeling experts typically move on to the next design project, operation engineers do not have enough knowledge of the process simulator, and automating models requires a high level of programming expertise.

Aspen Simulation Workbook addresses these issues by enabling seamless interoperability between AspenTech's engineering tools and Microsoft Excel—with no programming required. It brings the power of process modeling to a wider range of users, allowing companies to expand the use of process models to solve plant operating problems such as equipment troubleshooting, performance improvement and other plant studies, driving added value to your simulation investment.

Reported Benefits

- Up to 5% increase in throughput resulting from improved operations
- Enhanced speed and consistency of extracting key results from process simulation and heat exchanger design cases
- Increased design quality with greater cross-functional participation
- Up to 10% reduced energy use by presenting operators with distillation column operating advice based on current operating conditions
- Improved operating margins from better and consistent planning and business decisions
- Months of saved labor by eliminating the need to write program code



Excel-based end-user interface enables process models to be used widely for operations decision-making.

||||||| Key Technical Features

- **Rapidly develop user interfaces:** Users follow a simple copy/paste workflow to attach model variables to tables in Excel. The interfaces can be enhanced with buttons and other form controls to make it easy to initialize, run, and view the results within Excel.
- **Link models to plant data:** Plant data tags can be linked to Excel using the standard features of most process historians.
- **Run scenarios:** Use the Scenario Table to rapidly run hundreds of scenarios through your model to analyze historical data, analyze process sensitivity, check design cases, etc.
- **Support dynamic models:** Develop interfaces to batch models or dynamic models of continuous processes, and display the model results in profile tables or Excel-based strip charts; users can interact with the models as they run and see the results in real- or faster-than-real-time.
- **Automate workflow:** Easily automate repetitive tasks, such as extracting data from simulations to rapidly generate reports and charts using MS Excel.
- **Link models to third-party tools:** Typical applications include risk management software, equipment design tools, Monte-Carlo optimization engines, or cost estimation tools.

||||||| Added Value of Integration

Aspen Simulation Workbook is tightly integrated with other aspenONE Process Engineering solutions:

- *Aspen Plus*[®], including *Aspen Polymers*, *Aspen Rate-Based Distillation*, and *Aspen Plus Dynamics*
- *Aspen HYSYS*[®], including *Aspen HYSYS Dynamics*[™] and *Aspen HYSYS Upstream*[™]
- *Aspen HYSYS Petroleum Refining*, including reactor calibration environments
- *Aspen Custom Modeler*[®] and related products including *Aspen Adsorption* and *Aspen Chromatography* (all run modes are supported)
- AspenTech's Exchanger Design and Rating products including *Aspen Shell and Tube Exchanger*, *Aspen Air Cooled Exchanger*, *Aspen Plate Exchanger*, and *Aspen Shell and Tube Mechanical*

||||||| aspenONE Process Engineering

Aspen Simulation Workbook is a key component of aspenONE Process Engineering for the process industries. aspenONE Process Engineering is an integrated lifecycle solution—from conceptual design through to plant start-up and operations support—enabling you to model, build, and operate safer, competitive, and more reliable process plants. Companies are able to reduce capital and operating costs, increase engineering efficiency and quality, and accelerate time-to-market with payback in months instead of years.

||||||| About AspenTech

AspenTech is a leading provider of award-winning process optimization software and services. AspenTech's integrated aspenONE[™] solutions enable manufacturers to reduce costs, increase capacity, and optimize operational performance end-to-end throughout the engineering, plant operations, and supply chain management processes.

For more information, visit www.aspentech.com.



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