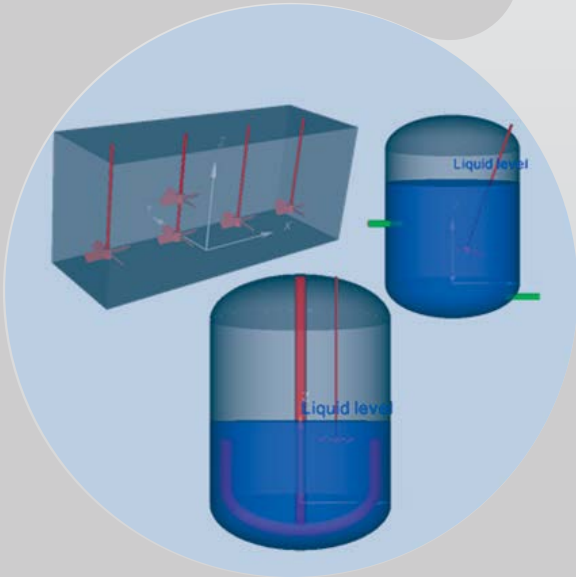
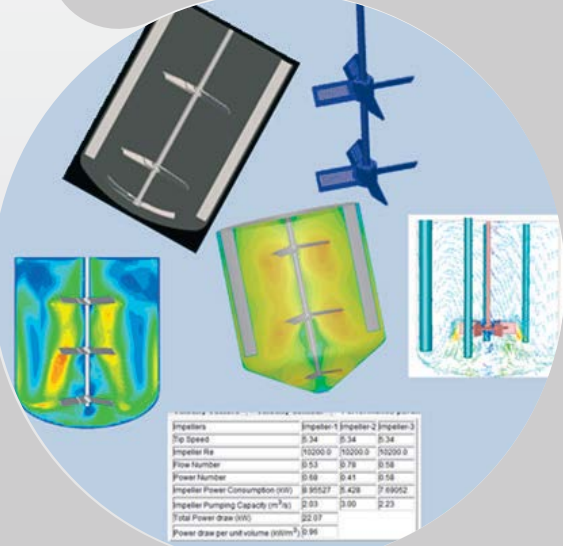




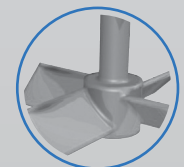
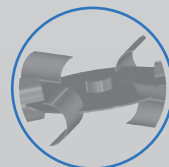
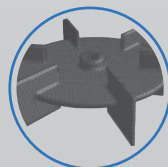
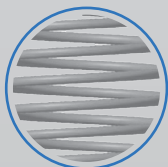
MixIT

Mixing analysis tool



MixIT is the next generation collaborative mixing analysis and scale-up tool designed to facilitate comprehensive stirred tank analysis using lab and plant data, empirical correlations and **advanced 3D CFD models**. It combines knowledge management tools and mixing science in a unified environment deployable enterprise-wide.

custom solutions



Why use MixIT?

Face the mixing Challenge

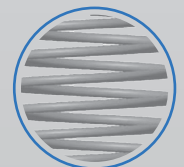
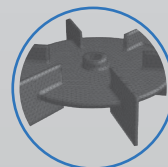
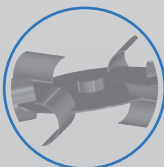
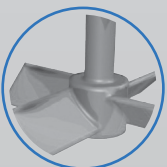
Stirred tank mixers and reactors are the industry work horse for chemical manufacturing. Poor mixing impacts product attributes and quality. Mixers come in a wide range of configurations making scale up and tech transfer a complex job. Selecting the right mixer and the right set of process conditions for that mixer is never easy. In addition, continuous advancement of impeller designs complicates the selection process for stirred reactors.

Seize Control of your mixing process

MixIT provides a platform to analyze your mixing process across various scales and configurations. It helps optimize the mixing process performance for Liquid-Liquid, Gas-Liquid and Solid-Liquid mixing.

- Connect the dots between recipe, process and product attributes
- Knowledge
- Accelerate process scale up
- Reduce uncertainties during tech transfer
- Resolve quality issues
- Reduce Energy
- Improve asset utilization
- Archive and Share Organizational

MixIT meets all your mixing analysis objectives from reactor selection, comparison and mixing simulation with 3D CFD analysis for both standard and custom designed stirred reactors and impellers.



MixIT Process

MixIT - The Stirred Tank Reactor Mixing Analysis Tool, provides deep insights and prudent solutions to solve scale up and troubleshooting problems. You can instantly get performance parameters, such as mixing intensity, power per unit volume, blend time, critical suspension speed, gas hold-up and mass transfer coefficients using industry accepted correlations. The automated CFD analysis modules helps you visualize the process and mix with confidence.

Database

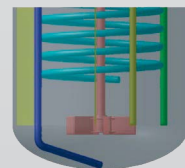
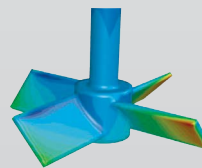
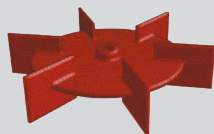
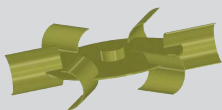
Create, update and share your geometry details, operating conditions, plant measurements, experimental & CFD data across multiple users globally.

Reactor Analysis

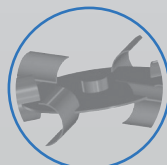
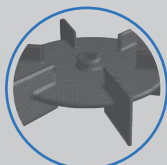
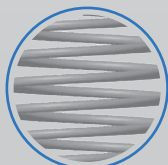
Design a reactor to achieve a desired mixing performance. Quickly select multiple reactors and compare their performance.

CFD

From geometry creation to analysis to report generation, perform fully automated 3D CFD flow simulations for stirred reactors including tracer simulations and heat transfer analysis.



custom solutions



CPPE d.o.o.
www.cppe.si
info@cppe.si

MixIT Features

- Intuitive GUI
- Extensive Impeller Library
- Baffles
- Industry standard bottom Shapes
- Spargers, Coils, and Dip Tubes
- Correlation based Analysis & Performance Comparison
- Flexibility of Unit system
- Customizable Correlations
- Fully Automated 3D CFD Analysis
- Powerful Reports and Visualization tool
- Tagging Reactor Types, Configurations and Processes
- Off-Centered, Angled and Multi-shaft Agitators
- Fluid Rheology
- Flexibility of Unit System
- Vortex Shape Predictions

