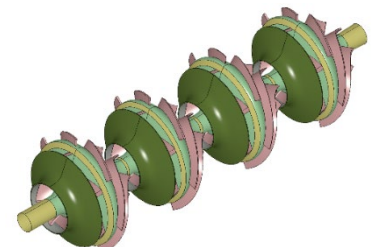
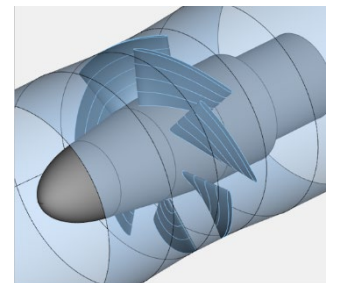
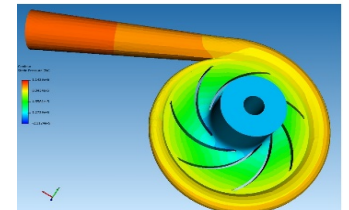
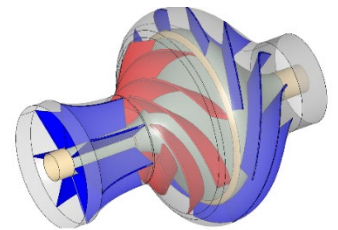


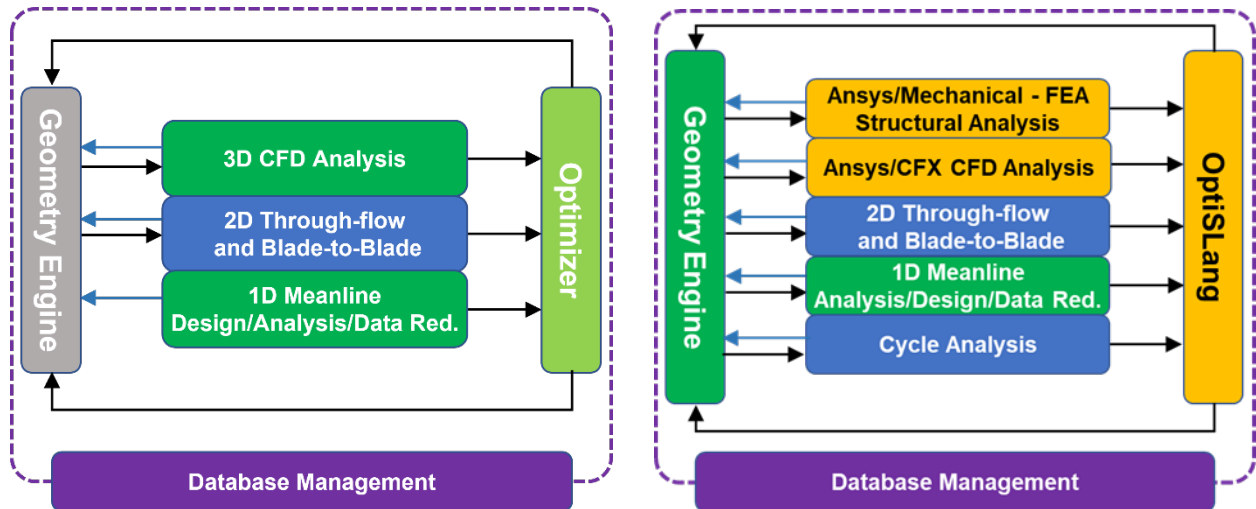
TurboTides for Pump Design

TurboTides for Pumps contains all the design, analysis and optimization tools a pump designer needs in a single seamless workflow. Includes: Radial, Mixed-flow and Axial pumps

- Modern seamless workflow (GUI)
- 1D meanline with advanced Data Reduction for model calibration
 - Design complete stages with additional components such as vaned and vaneless diffusers, stators, volutes, and additional stages.
- 2D Throughflow and Blade to Blade CFD Solvers
- Detailed 3D geometry generation
- 3D blade shaping operations
- Advanced volute shaping and editing
- Integrated 3D CFD
 - Automatic structured meshing mesh and simulation setup
 - “One-click” setup
- Built-in optimization
- Database for storing and re-using legacy designs for use in future designs
- Advanced CAD Import/Export (component and stage level)
- Integration for seamless export to ANSYS CFX (through Turbo Grid) or ANSYS Mechanical. TurboTides is an authorized ANSYS Software Solutions Partner.
- No extra costs for common functions such as LAN floating, multi-stage, CAD Import/Export, additional processors, etc.



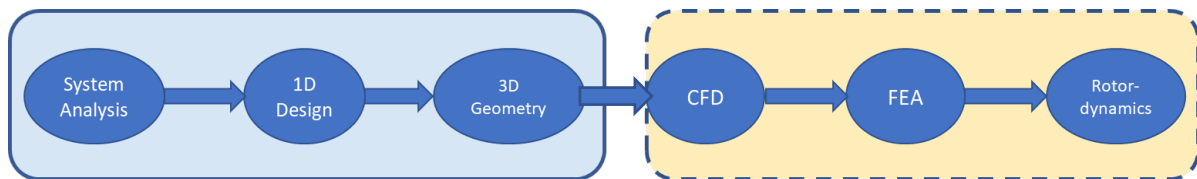
TurboTides for Pump Design



Ansys Solution and Development Partner

TurboTides Design

Ansys Simulation



About our Founder and President

Dr. Xuwen Qiu



Dr. Qiu earned his Ph.D. from Syracuse University in Mechanical Engineering. For more than 25 years, Dr. Qiu has dedicated himself to developing new turbomachinery technologies, from compressor and turbine modeling to an integrated turbomachinery design system (TurboTides). Dr. Qiu is the primary author of the unified slip factor model for axial and radial impellers, the impeller recirculation loss model and innovative data reduction scheme that generates a predictive, calibrated 1D meanline model.