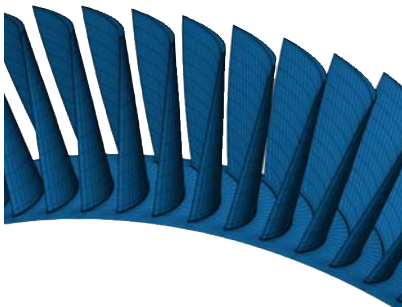
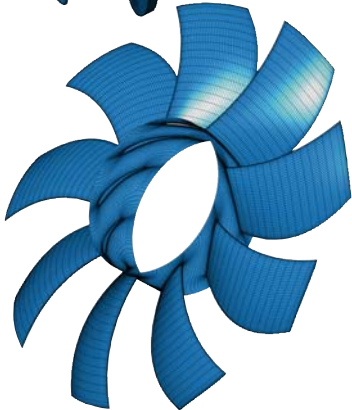
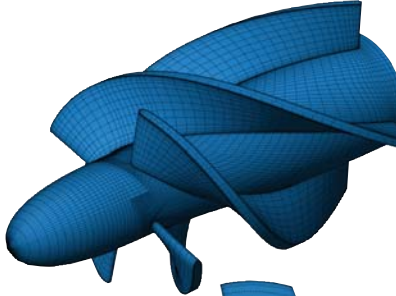
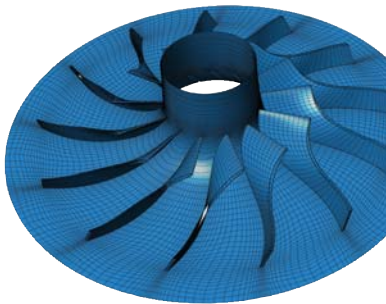




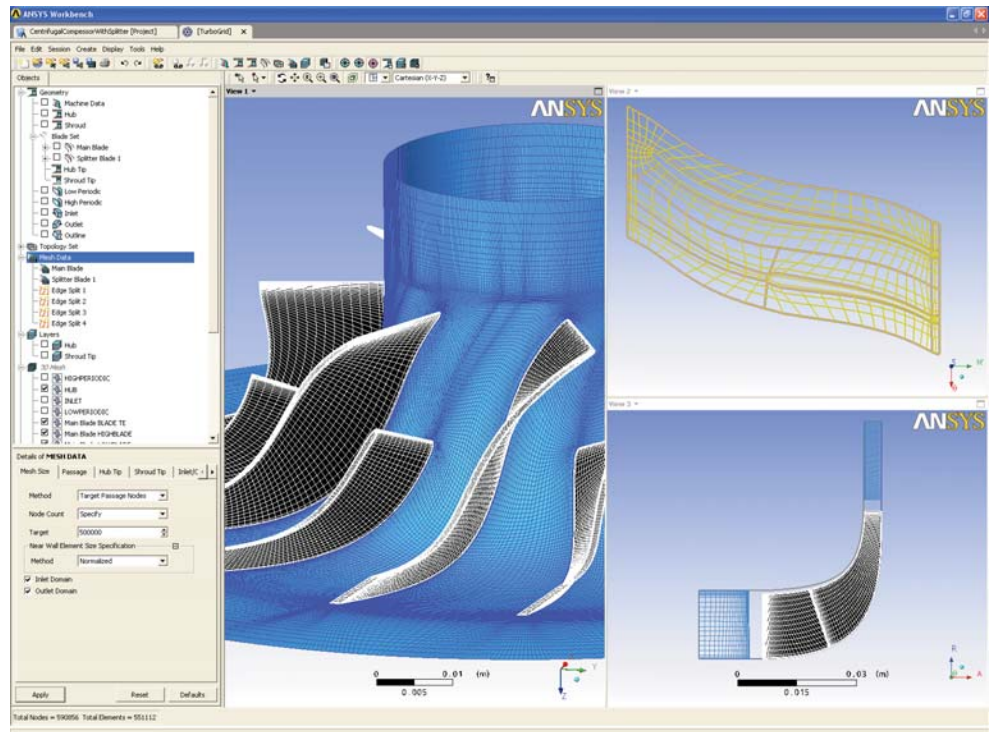
Product Features

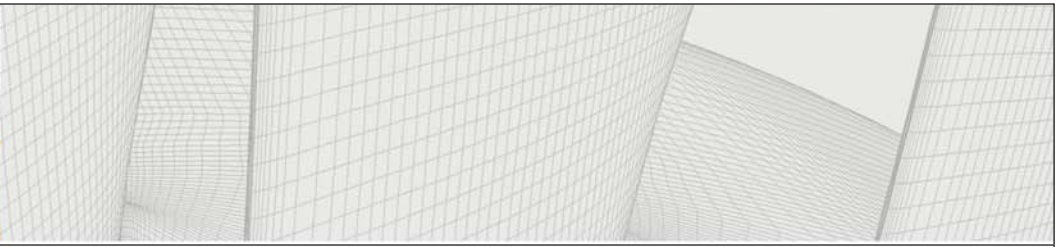


ANSYS TurboGrid software provides designers and analysts of rotating machinery with the automated mesh creation tool required to increase productivity and optimize design. ANSYS TurboGrid uses superior technology to create high-quality hexahedral mesh while preserving the underlying geometry, allowing for accurate and fast CFD analysis.

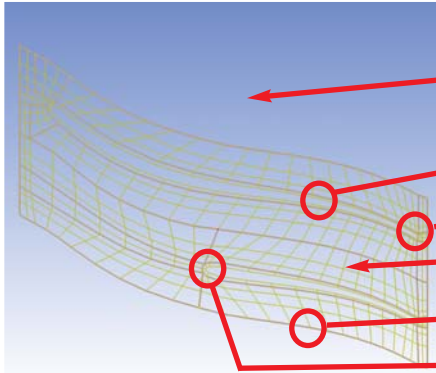
The ANSYS TurboGrid product is an integral part of the software tools from ANSYS for rotating machinery within the ANSYS® Workbench™ environment. ANSYS TurboGrid provides almost automatic grid generation for turbomachinery by creating and smoothing topology, decreasing the time normally required to create a quality mesh. Automated functions further simplify the grid-generation step and the analysis of mesh quality. Full scripting for batch mode operation in parametric analysis also is included.

ANSYS TurboGrid software is a tool that provides fast turnaround of the grid-generation process to ensure maximum utility from the CFD analysis process. This is critical in industries in which meeting rigorous specifications is paramount, and small increases in efficiency can lead to millions of dollars in profit.

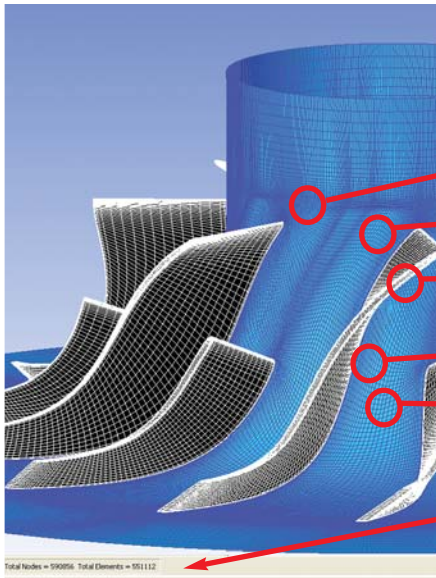




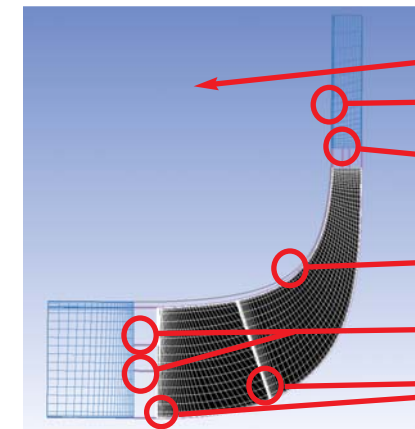
Automation in Grid Generation Display in 3-D Cartesian, blade-to-blade and meridional views



- Automatic topology generation around blade for single and multiple blade applications
- Automatic O-grid generation
- Automatic control point placement
- Automatic smoothing of topology
- Automatic periodic surface and node placement
- Automatic topology pattern selection



- Automatic element size matching at inlet/passage and outlet/passage interfaces
- Automatic element size matching across topology edges
- Automatic mesh generation in tip region
- Automatic element size matching across O-grid/passage interface
- Automatic mesh smoothing
- Automatic generation of mesh statistics and analysis of mesh quality



- Automatic parameterization of meridional space
- Automatic element size matching from hub to shroud in tip region
- Automatic domain interface placement
- Automatic blade surface extension and trimming at hub, shroud and tip as required
- Automatic layer insertion
- Automatic detection of leading and trailing edges