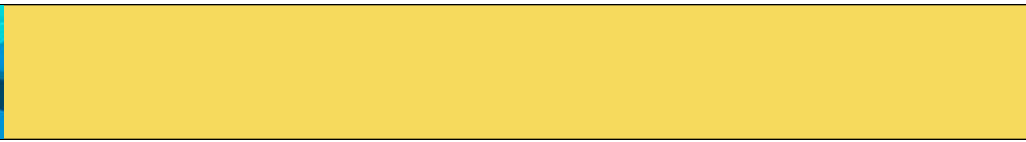
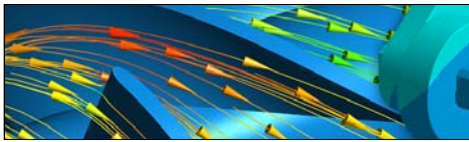


	ANSYS® CFX® 11	CFX-Flo 11	FLUENT® 6.3	FloWizard 3	GAMBIT® 2.4
Usability					
Easy wizard interface with built-in expert guidance for all functions				•	
Wizard interface for basic setup	•	•			
Modern graphics user interface	•	•	•	•	•
ANSYS® Workbench™ integration	•	•			
Custom applications (service option)				•	
Geometry					
Imports industry-standard geometry formats	For geometry functions, compatible with other ANSYS Workbench integrated tools such as ANSYS® DesignModeler™ and CFX-Mesh		Comes with GAMBIT		•
Full-featured geometry creation					•
CAD geometry manipulation					•
Manually controlled flow volume extraction					•
Automatic flow volume extraction					•
Manually controlled geometry cleanup					•
Semi-automatic geometry cleanup					•
Automatic geometry cleanup mode				•	•
CAD Connections					
CAD connectivity to SolidWorks® and Inventor®, NX™, Pro/ENGINEER®	Through ANSYS Workbench and ANSYS DesignModeler		Comes with GAMBIT		•
Launcher for Autodesk® 11					•
CAD associativity to NX and Pro/ENGINEER					•
CAD associativity with GAMBIT					•
Mesh					
Fully featured manually controlled mesher	Comes with CFX-Mesh		Comes with GAMBIT		•
Built-in automated mesher				•	
Import industry standard mesh formats	•	•	•	•	•
Handles fully unstructured meshes	•	•	•	•	•
Solution-based mesh adaption	•	•	•		
Polyhedral mesh conversion to increase solution speed	NA	NA	•	•	
Physics and Boundary Conditions					
Variety of inlet and outlet BC	•	•	•	•	
Steady state flow	•	•	•	•	
Transient flow	•	•	•		
2-D flow (dedicated solver option)			•		
2-D flow (using thin 3-D segment)	•	•	•	•	
3-D flow	•	•	•	•	
Time-dependent boundary conditions	•	•	•		
Incompressible flow	•	•	•	•	
Compressible flow	•	•	•	•	
Natural convection	•	•	•	•	
Fan model	•	•	•	•	
Periodic domains	•	•	•		
Porous media	•	•	•	•	
Heat transfer	•	•	•	•	
Conjugate heat transfer	•	•	•	•	
Non-Newtonian viscosity	•	•	•	•	
Turbulence (isotropic)	•	•	•	•	
Turbulence (anisotropic/strong swirl/RSM)	•	•	•	•	
Turbulence (LES)	•	•	•		



	ANSYS® CFX® 11	CFX-Flo 11	FLUENT® 6.3	FloWizard 3	GAMBIT® 2.4
Rotating equipment–MRF	•		•	•	
Rotating equipment–sliding mesh	•		•		
Moving–deforming mesh (partially solver based)	•	•			
Moving–deforming mesh (fully solver based)			•		
Flow-driven solid motion			•		
Internal radiation–participating media	•	•	•	•	
Internal radiation–transparent media	•		•	•	
External radiation	•		•	•	
Solar radiation & load	•		•		
Tracer species	•	•	•		
Generalized species	•	•	•		
Flow pathlines (massless)	•	•	•	•	
Particle tracking (with mass)	•		•		
Coupled discrete phase modeling	•		•		
Acoustics	•		•		
Chemical reaction	•		•		
Combustion	•		•		
Cavitation	•	•	•		
Multiphase (Eulerian)	•		•		
Multiphase (free surface/VOF)	•	•	•		
Post-Processing					
Plane cuts	•	•	•	•	
Iso-surfaces	•	•	•	•	
Velocity vectors	•	•	•	•	
Pathlines	•	•	•	•	
Contour plots	•	•	•	•	
Contours on boundaries	•	•	•	•	
Point probes	•	•	•	•	
Symmetry mirroring	•	•	•		
Periodic repeats	•	•	•		
X–Y charts	•	•	•		
Automated generation of HTML reports with embedded images	•	•		•	
MPG animations	•	•	•	•	
AVI animations				•	
Solver Options					
Full control over numerics and solving	•	•	•		
Fully automated numerics and solving				•	
Pressure-based coupled solver	•	•	•		
Density-based coupled solver			•		
Pressure-based segregated solver			•	•	
Remote solve (FLUENT R Solve) option			•	•	
Serial solving on 32-and 64-bit Windows®	•	•	•	•	
Parallel solving on local PC option	•	•	•	•	
Parallel solving over network option	•	•	•		
Upward compatibility with ANSYS CFX	NA	•			
Upward compatibility with FLUENT			NA	•	

