



ANSYS Discovery – Bundle Feature Comparison

- = Fully Supported
- ▲ = Limited Capability
- = Requires more than 1 product

	Discovery Essentials	Discovery Standard	Discovery Ultimate
DESIGN TOOLS			
Structural			
Static Structural Analysis		●	●
Modal Analysis		●	●
Shells, Springs, Point Masses			●
Spatially Varying Loads			●
Nonlinear Contact & Joints			●
Pre-tension Bolts & Multi-step Analysis			●
Basic Plasticity			●
Large Deformation			●
Fatigue Analysis			●
Topology Optimization			●
Fluid			
Steady-State Flow		●	●
Transient Flow		●	●
Time-dependent Fluid Conditions			●
Incompressible Flow			●
Compressible Flow ¹		▲	●
Non-Newtonian Fluids			●
Periodic Domains			●
Porous Media			●
Particle Flow			●
Thermal			
Steady State Thermal		●	●
Transient Thermal		●	●
Time Dependent Thermal Conditions			●
Conduction		●	●
Convection		●	●
Radiation to Space			●
Electromagnetics			
DC Conduction			●
AC Conduction			●
Magnetostatics			●
AC Harmonic Magnetics			●



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Multiphysics			
Thermal-stress		●	●
Fluid-structure interaction		●	●
Fluid-solid thermal (conjugate heat transfer)			●
Thermal-electric			●
Thermal-electric-stress			●
Thermal-electromagnetic			●
Thermal-electromagnetic-stress			●
Design & Concept Modeling			
Concept Modeling or Detail Design	●	●	●
Part/Assembly Creation or Import	●	●	●
Large Assembly Importing	●	●	●
2-D Drawings, BOM, Exploded Views	●	●	●
Geometric Parameterization	●	●	●
Sheet metal design	●	●	●
Manufacturing			
Repair & Defeature Tools	●	●	●
Sheet metal editing and unfolding	●	●	●
3-D Printing			
Import, repair, edit faceted data ³	●	●	●
Shelling and infills	●	●	●
Thickness detection	●	●	●
Reverse Engineering			
Autosurface of scanned data	●	●	●
Build solid/surfaces on scanned data	●	●	●
Interfaces and Addons			
Catia/JT translator	●	●	●
Algoryx Momentum ²	●	●	●
Keyshot rendering ²	●	●	●

- Notes:** (1) Discovery Live supports mildly compressible fluid flow up to ~Mach 0.3
 (2) Add-on Module
 (3) Included with Discovery Standard and Ultimate