

/ DESIGN TOOLS	SpaceClaim	DesignModeler	Discovery
FLUID			
Steady-state Flow			●
Transient Flow			●
Incompressible Flow			●
Compressible Flow			▲
Porous Media			■
GEOMETRY			
Direct Modeling Technology	●		●
Feature Based Modeling Technology		●	▲
Open Data from All Major CAD Systems	●	●	●
Export Data to Neutral File Formats	●	●	●
Modify Imported Geometry	●	●	●
Defeaturing and Simplification Tools	●	●	●
Model Repair	●	●	●
Add Parameters for Design Exploration	●	●	●
Extract Mid-Surfaces/Shells and Beams	●	●	
Extract Volumes and Create Inner Fluid Domains	●	●	●
Extract Outer Air Enclosures	●	●	●
Shared Topology for Conformal Meshing	●	●	●
Booleans and Slicing	●	●	●
Create Weld Bodies	●	●	
Boundary Condition Mapping	●	●	●
Scripting	●	●	▲
Repair and Edit Faceted Data	●		●
Icepak Integration	●	●	
Reverse Engineering Faceted Data	●		●
Prep for Additive Manufacturing	●		●

- 1 = Ansys nCode DesignLife Products
- 2 = Ansys Fluent
- 3 = Ansys DesignXplorer
- 4 = Ansys SpaceClaim
- 5 = Ansys Customization Suite (ACS)
- 6 = Ansys HPC, ANSYS HPC Pack or Ansys HPC Workgroup
- 7 = Ansys Granta Materials Data for Simulation
- 8 = Ansys Additive Suite
- 9 = Ansys Composite Cure Simulation
- 10 = Ansys SPEOS for NX & ANSYS SPEOS for Creo Parametric
- 11 = Ansys SPEOS
- 12 = Ansys SPEOS & Ansys SPEOS for NX
- 13 = Ansys CFD Pro - Ansys Fluent with a reduced set of capabilities
- DMP = Distributed-memory parallel
- SMP = Shared-memory parallel
- MAPDL = Mechanical APDL
- Explicit = Autodyn
- RBD = Rigid Body Dynamics
- Aqwa = Aqwa

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HEAT TRANSFER			
Natural Convection			●
Conduction & Conjugate Heat Transfer			■
External Radiation			●
INTERFACES AND ADD-ONS			
Transfer to Mechanical	●	●	●
Transfer to Workbench	●	●	●
Transfer to Fluent	●	●	●
Algoryx Momentum	●		
GRANTA MATERIALS DATA FOR SIMULATION			
Materials Data for Simulation			■
MULTIPHYSICS			
Conjugate Heat Transfer			■
Thermal-Stress			●
STRUCTURAL			
Static Structural Analysis			●
Modal Analysis			●
Pre-Stressed Modal Analysis			■
Point Masses			●
Nonlinear Contact and Joints			■
Pre-Tension Bolts			■
Large Deformation			■
Topology Optimization			●

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THERMAL			
Steady-state Thermal			●
Transient Thermal			●
Conduction			●
Convection			●
TOOL INTEROPERABILITY			
Supported running on the Ansys Cloud In browser interactively	●	●	●

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