

ANSYS Discovery — Bundle Feature Comparison

Discovery □= Requires more than 1 product DESIGN TOOLS Structural Static Structural Analysis Modal Analysis Fluid Steady-State Flow Transient Flow Compressible Flow¹ Thermal Steady State Thermal Conduction Convection 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 Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum² ■ Manufacturing Repair & Defeature Tools Tinckness and Addons Catia/JT translator Algoryx Momentum² ■ Essentials Biscovery Standard Standard ■ Oscovery Standard Discovery Standard Standard Discovery Design Standard Discovery Standar	• = Fully Supported		
□= Requires more than 1 product DESIGN TOOLS Structural Static Structural Analysis Modal Analysis Fluid Steady-State Flow Transient Flow Compressible Flow¹ Thermal Steady State Thermal Transient Thermal Conduction Convection 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 Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum² ■ Standard ■ Standard ■ Omega		Discovery	Discovery
Structural Static Structural Analysis Modal Analysis Fluid Steady-State Flow Transient Flow Compressible Flow¹ Thermal Steady State Thermal Transient Thermal Conduction Convection 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 Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum² • • • • • • • • • • • • • • • • • • •			
Structural Static Structural Analysis Modal Analysis Fluid Steady-State Flow Transient Flow Compressible Flow¹ Thermal Steady State Thermal Transient Thermal Conduction Convection 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 Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum² • • • • • • • • • • • • • • • • • • •	DESIGN TOOLS		
Static Structural Analysis Modal Analysis Fluid Steady-State Flow Transient Flow Compressible Flow¹ Thermal Steady State Thermal Transient Thermal Conduction Convection 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 J-D Printing Import, repair, edit faceted data Shelling and infills Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/ T translator Algoryx Momentum² • • • • • • • • • • • • • • • • • • •			
Fluid Steady-State Flow Transient Flow Compressible Flow¹ Thermal Steady State Thermal Transient Thermal Conduction Convection 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 J-D Printing Import, repair, edit faceted data Shelling and infills Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/ T translator Algoryx Momentum² • • • • • • • • • • • • • • • • • • •			•
Fluid Steady-State Flow Transient Flow Compressible Flow¹ Thermal Steady State Thermal Transient Thermal Conduction Convection 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 Shelling and infills Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum² • One Design & Defeature Tools Algoryx Momentum² • Interfaces and Addons Catia/JT translator Algoryx Momentum² • One Design & Defeature Tools Algoryx Momentum² • One Design & De	-		•
Steady-State Flow Transient Flow Compressible Flow¹ Thermal Steady State Thermal Transient Thermal Conduction Convection 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 Shelling and infills Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum² • Transient Flow • Autosurface of scanned data • Interfaces and Addons Catia/JT translator Algoryx Momentum² • Transient Flow • Transient Flow • Transient Flow • Transient Flow • Transient Flow • Transient Flow • Transient Flow • Transiet Flo	- I odder matysis		-
Transient Flow Compressible Flow¹ Thermal Steady State Thermal Transient Thermal Conduction Convection 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 Jardy Archives detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum² O ON Catia/JT translator Algoryx Momentum² O ON Catia/JT translator Algoryx Momentum² O ON Catia/JT translator Algoryx Momentum² O ON Catia/JT translator Algoryx Momentum² O ON Catia/JT translator Algoryx Momentum²	Fluid		
Thermal Steady State Thermal Transient Thermal Conduction Convection 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 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 • • • • • • • • • • • • • • • • • • •	Steady-State Flow		•
Thermal Steady State Thermal Transient Thermal Conduction Convection 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 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 • • • • • • • • • • • • • • • • • • •	Transient Flow		•
Steady State Thermal Transient Thermal Conduction Convection 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 J-D Printing Import, repair, edit faceted data Shelling and infils Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum ² Interfaces and Addons Catia/JT translator Algoryx Momentum ²	Compressible Flow 1		A
Steady State Thermal Transient Thermal Conduction Convection 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 J-D Printing Import, repair, edit faceted data Shelling and infils Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum ² Interfaces and Addons Catia/JT translator Algoryx Momentum ²			
Transient Thermal Conduction Convection 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 Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum ² Design & Occupit Modeling Manufacturing Part/Assembly Creation or Import Part/Ass			
Conduction Convection 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 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 • • • • • • • • • • • • • • • • • • •			•
Convection ● 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 ● Jamport, repair, edit faceted data ● Shelling and infills ● Thickness detection ● Reverse Engineering Autosurface of scanned data ● Build solid/surfaces on scanned data ● Interfaces and Addons ● Catia/JT translator ● Algoryx Momentum² ●			•
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 Shelling and infills Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum² ■ ■			•
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 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	Convection		•
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 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	Dosign & Concont Modeling		
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 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		•	
Large Assembly Importing 2-D Drawings, BOM, Exploded Views Geometric Parameterization Sheet metal design Manufacturing Repair & Defeature Tools Sheet metal editing and unfolding Manufolding 3-D Printing Import, repair, edit faceted data 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 • • •		•	
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 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		•	
Geometric Parameterization Sheet metal design Manufacturing Repair & Defeature Tools Sheet metal editing and unfolding 3-D Printing Import, repair, edit faceted data Shelling and infills Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum ²		•	•
Manufacturing Repair & Defeature Tools Sheet metal editing and unfolding 3-D Printing Import, repair, edit faceted data Shelling and infills Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum² ■		•	•
Manufacturing Repair & Defeature Tools ● Sheet metal editing and unfolding ● 3-D Printing ■ Import, repair, edit faceted data ● Shelling and infills ● Thickness detection ● Reverse Engineering ■ Autosurface of scanned data ● Build solid/surfaces on scanned data ● Interfaces and Addons ● Catia/JT translator ● Algoryx Momentum² ●		•	•
Repair & Defeature Tools Sheet metal editing and unfolding 3-D Printing Import, repair, edit faceted data 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 • • • • • • • • • • • • • • • • • • •	Sheet metat design		
Sheet metal editing and unfolding 3-D Printing Import, repair, edit faceted data 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	Manufacturing		
unfolding 3-D Printing Import, repair, edit faceted data 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 •	Repair & Defeature Tools	•	•
3-D Printing Import, repair, edit faceted data 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	Sheet metal editing and	•	•
Import, repair, edit faceted data 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	unfolding		
Import, repair, edit faceted data 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			
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 •	3-D Printing		
Thickness detection Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum ²	Import, repair, edit faceted data	•	•
Reverse Engineering Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum ²		•	•
Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum ² • •	Thickness detection	•	•
Autosurface of scanned data Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum ² • •			
Build solid/surfaces on scanned data Interfaces and Addons Catia/JT translator Algoryx Momentum ² •			
Interfaces and Addons Catia/JT translator Algoryx Momentum² ●		•	•
Catia/JT translator Algoryx Momentum ²	Build solid/surfaces on scanned data	•	•
Catia/JT translator Algoryx Momentum ²			
Algoryx Momentum ²	Interfaces and Addons		
	Catia/JT translator	•	•
Keyshot rendering ²	Algoryx Momentum ²	•	•
<u>, </u>	Keyshot rendering ²	•	•

Notes: (1) Discovery Live supports mildly compressible fluid flow up to ~Mach 0.3

(2) Add-on Module