3DEXPERIENCE STRUCTURAL 2023
FEATURE MATRIX

	STRUCTURAL PERFORMANCE ENGINEER	STRUCTURAL MECHANICS ENGINEER	STRUCTURAL ANALYSIS ENGINEER
DESIGN-ANALYSIS WORKFLOW			
Full Design Associativity	✔	✔	✔
Native CAD Connector	ADD-ON	ADD-ON	ADD-ON
Nastran Import/Export			✔
Abaqus Import/Export			✔
CATIA Design Essentials			✔
Computational Generative Design Tools			✔
Parametric Design Study	LIMITED	✔	✔
Functional Generative Design			ADD-ON
USER INTERFACE			
User Assistant	✔	✔	✔
Physics Method Reuse	✔	✔	✔
PLATFORM			
Data Access & Management	✔	✔	✔
Engineering Collaboration	✔	✔	✔
Lightweight Results Review	✔	✔	✔
SOLVING TECHNIQUES			
Abaqus Implicit Static Analysis	✔	✔	✔
Abaqus Implicit Dynamic Analysis	✔	✔	✔
Abaqus Explicit Dynamic Analysis		✔	✔
fe-safe Durability Analysis	ADD-ON	ADD-ON	✔
SCENARIO			
Linear Analysis	✔	✔	✔
Advanced Linear Analysis	✔	✔	✔
Nonlinear Analysis	✔	✔	✔
Advanced Nonlinear & Multiphysics Analysis		✔	✔
Sequential Multi-Step Simulations	✔	✔	✔
Step Restart		✔	✔

	STRUCTURAL **PERFORMANCE** ENGINEER	STRUCTURAL **MECHANICS** ENGINEER	STRUCTURAL **ANALYSIS** ENGINEER
SCENARIO (cont.)			
Abaqus General Contact	✔	✔	✔
Small & Finite Sliding Contact	✔	✔	✔
Durability Analysis	ADD-ON	ADD-ON	✔
Additive Manufacturing Analysis		ADD-ON	
User Subroutines		LIMITED	LIMITED
MODEL			
Connections	✔	✔	✔
Comprehensive Meshing Capabilities	✔	✔	✔
Rule-Based Meshing	✔	✔	✔
Model Assembly Design	✔	✔	✔
Geometry Preparation & Simplification		✔	✔
Substructures & Submodels		✔	✔
Keyword Editing		✔	✔
MATERIALS			
Nonlinear Materials	✔	✔	✔
Advanced Material Properties	✔	✔	✔
Fatigue Materials	ADD-ON	ADD-ON	✔
Material Calibration		✔	✔
Composite Materials	ADD-ON		ADD-ON
RESULTS			
Basic Post-Processing Tools	✔	✔	✔
Advanced Post-Processing Tools	✔	✔	✔
Material Rendering	✔	✔	✔
High-Performance Visualization	✔	✔	✔
Remote Web Visualization	✔	✔	✔
Animation Export	✔	✔	✔
Side-by-Side Comparison	✔	✔	✔
Report Generator	✔	✔	✔
COMPUTATION			
Local and Cloud Computing	✔	✔	✔
High Performance Computing (HPC)	✔	✔	✔
Embedded Compute Cores	8	8	0
Additional Compute Tokens	ADD-ON	ADD-ON	ADD-ON
Additional Compute Credits	ADD-ON	ADD-ON	ADD-ON

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