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3DEXPERIENCE STRUCTURAL 2023
FEATURE MATRIX

	STRUCTURAL DESIGNER	STRUCTURAL ENGINEER	STRUCTURAL PERFORMANCE ENGINEER	STRUCTURAL MECHANICS ENGINEER	STRUCTURAL ANALYSIS ENGINEER
DESIGN-ANALYSIS WORKFLOW					
Major 3D CAD Import	✔	✔	✔	✔	✔
Full Native CAD Associativity	ADD-ON	ADD-ON	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		LIMITED	✔	✔	✔
Step Restart				✔	✔

	STRUCTURAL DESIGNER	STRUCTURAL ENGINEER	STRUCTURAL PERFORMANCE ENGINEER	STRUCTURAL MECHANICS ENGINEER	STRUCTURAL ANALYSIS ENGINEER
SCENARIO (cont.)					
Abaqus General Contact	LIMITED	✓	✓	✓	✓
Small & Finite Sliding Contact	✓	✓	✓	✓	✓
Durability Analysis			ADD-ON	ADD-ON	✓
Additive Manufacturing Analysis				ADD-ON	
User Subroutines				LIMITED	LIMITED
MODEL					
Connections	LIMITED	✓	✓	✓	✓
Comprehensive Meshing Capabilities	LIMITED	✓	✓	✓	✓
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	4	4	8	8	0
Additional Compute Tokens	ADD-ON	ADD-ON	ADD-ON	ADD-ON	ADD-ON
Additional Compute Credits	ADD-ON	ADD-ON	ADD-ON	ADD-ON	ADD-ON

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