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3DEXPERIENCE GENERATIVE DESIGN 2024
FEATURE MATRIX

	SOLIDWORKS SIMULATION PROFESSIONAL	FUNCTION-DRIVEN GENERATIVE DESIGNER	STRUCTURAL GENERATIVE DESIGNER	STRUCTURAL GENERATIVE ENGINEER
CAD MODELING				
Native CAD Link (SOLIDWORKS)	✔	✔	✔	✔
Native CAD Link (CATIA)		✔	✔	✔
Native CAD Link (Other)		ADD-ON	ADD-ON	ADD-ON
CATIA Simulation Model Preparation				✔
CATIA Part Design Essentials		✔	✔	✔
CATIA Assembly Design		✔	✔	
CATIA Imagine & Shape Design		✔	✔	
CATIA Generative Wireframe & Surface		✔	✔	✔
CATIA Sheet Metal Design			✔	
FREE-FORM OPTIMIZATION				
Topology Optimization	✔	✔	✔	✔
Shape Optimization			✔	✔
Bead Optimization			✔	✔
PARAMETRIC OPTIMIZATION				
Single-Variable Optimization	✔	✔	✔	✔
Multi-Variable Optimization	✔		✔	✔
Full Design of Experiments (DOE)				✔
SIMULATION CAPABILITIES				
Assembly Capability		✔	✔	✔
Linear Static Scenarios	✔	✔	✔	✔
Frequency/Buckling Scenarios	✔	✔	✔	✔
Fatigue & Durability Scenarios				✔
Nonlinear Static Scenarios				✔
Explicit Dynamic Scenarios				PARAMETRIC ONLY

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STANDALONE FEA SOFTWARE				
SOLIDWORKS Simulation	✔			
3DEXPERIENCE STRUCTURAL				✔
COMPUTATION				
Base Core Compute (Local)	UNLIMITED	4	8	0
Cloud Compute Access		✔	✔	✔
Base Core Compute (Cloud)		4	8	0
Estimated Effective Core Compute Limit (Local or Cloud)	12-24	16-32	16-32	32-192

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