SIMULIAWORKS PRODUCT MATRIX

	ROLE/CAPABILITY	STRUCTURAL DESIGNER	STRUCTURAL ENGINEER	STRUCTURAL PERFORMANCE ENGINEER	STRUCTURAL MECHANICS ENGINEER
Integration Workflow	**SOLIDWORKS® Connector** Save SOLIDWORKS data on the cloud-based 3DEXPERIENCE® platform directly from SOLIDWORKS	✛	✛	✛	✛
	Full Design Associativity Enable efficient what-if scenarios that update your simulation model for any change made with a CAD application connected to the platform	✔	✔	✔	✔
User Interface	**User Assistant** Follow an interactive wizard to set up, run and review results of simulation	✔	✔	✔	✔
	Physics Methods Reuse Customize the User Assistant to streamline the setup and solving of complex simulations			✔	✔
Platform	**Data Access and Management** Access the latest product design information from a single, centralized, secure location on the cloud	✔	✔	✔	✔
	Engineering Collaboration Collaborate in real time, exchange ideas and manage tasks across disciplines on the cloud	✔	✔	✔	✔
	Lightweight Results Review Review and share simulation results in real time on the cloud	✔	✔	✔	✔
Solver	**Abaqus Implicit Solver** Solve static problems such as gasket compression and pre-loaded bolts	✔	✔	✔	✔
	Abaqus Implicit Dynamic Solver Solve quasi-static problems such as snap fits			✔	✔
	Abaqus Explicit Solver Solve nonlinear dynamic problems such as drop test and impact				✔

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Scenario	**Linear Static Analysis** Run linear static, thermal (steady-state), frequency, and linear buckling studies	✔	✔	✔	✔
	Linear Dynamic Analysis Run modal transient, and model harmonic studies		✔	✔	✔
	Nonlinear Static Analysis Run nonlinear static, thermal (transient) and visco/creep studies			✔	✔
	Nonlinear Dynamic Analysis Run nonlinear dynamic, nonlinear buckling, random vibrations, complex frequency, and sub-modeling studies				✔
	Sequential Multi-Step Simulations Set-up automatic sequential loading in one simulation			✔	✔
	Abaqus General Contact Automatically set up component contact			✔	✔
Model	**Connections** Set up modeling of multiple components in an assembly	✔	✔	✔	✔
	Adaptive Solid Meshing Automatically refine meshes for higher accuracy where needed	✔			
	Comprehensive Meshing Capabilities Create high-quality meshes for solids, shells, and beams		✔	✔	✔
	Rule-Based Meshing Set meshing size and specifications (holes, fillets) for automatic high-quality mesh creation		✔	✔	✔
	Geometry Preparation & Simplification Automatically remove undesired geometry (holes, fillets, logos), extract mid-surface, and partition geometry for hex meshing				✔

SOLIDWORKS SALES
info@goengineer.com
888.688.3234

TECHNICAL SUPPORT
support@goengineer.com
888.559.6167

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Materials	**Nonlinear Materials** Explore a wide range of materials with the following properties: hyper-elasticity, plastic or permanent deformation, creep deformation, viscoelasticity			✔	✔
	Material Calibration Use test data to calibrate model behavior				✔
Results	**Basic Post-Processing Tools** Generate report, contour/ vector/iso-surface plots	✔	✔	✔	✔
	Advanced Post-Processing Tools Create XY plots (field, history), path plots, view cuts		✔	✔	✔
	Material Rendering Create stunning visuals coupling material rendering with simulation results		✔	✔	✔
	High-Performance Visualization Accelerate the visualization of results even on large models		✔	✔	✔
Computation	**Local Computing** Run simulations on user's local computer	✔	✔	✔	✔
	Cloud Computing Run simulations remotely on the cloud	➕	➕	➕	➕

✔ **Included**

➕ **Requires an additional role**