PLM Express:
Design and Simulation Product Matrix

CATIA Design Bundles

3D Core Mechanical Engineering | Advanced Mechanical Functionalities | From Design to Manufacturing | Cloud Collaboration | Onboarding & Support

	ESSENTIAL	MASTER	ELITE
	$7,080/year	$9,037/year	$14,598/year
Part and Assembly Design to Create Advanced Mechanical Products and Parts, from Conceptual to Detailed Phases	✓	✓	✓
Generative Sketch Constraints (AI)	✓	✓	✓
Functional Design and Advanced Feature-based Approach	✓	✓	✓
Direct Modeling Technology	✓	✓	✓
Update Strategies at Part/Feature Levels	✓	✓	✓
Quickly Design Generative Shapes with Wireframe or Surfacic Components	✓	✓	✓
Design of complex mechanisms to manage their movement	-	-	✓
AI-Driven Generative Functional Surfaces (Mechanical Interfaces)	-	-	✓

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3D Core Mechanical Engineering | **Advanced Mechanical Functionalities** | From Design to Manufacturing | Cloud Collaboration | Onboarding & Support

Planning Engine and Predictive AI capabilities	✓	✓	-
Knowledge Design, Automation and Knowledge Assistance	✓	✓	✓
Full Definition of 3D Tolerances & Annotations, Filter and Review Dimensions, Tolerances and 3D Annotations and Associative Drawing Generation	-	✓	✓
Generative 3D Tolerancing	-	✓	✓
Static Simulation to Predict the Structural Behavior of the Mechanical Assembly Under Loads	-	✓	✓
Human-centric Design Approach	-	✓	✓
Freestyle Shape for Complex Surface Design & Analysis	-	-	✓
Mechanical Surface Refinement for High-Quality Shapes	-	-	✓
Generative Shape Develop to Apply Text on a Shape	-	-	✓
Virtual-to-Real Shape Morphing to Optimize Shapes According to Load Conditions or Tooling	-	-	✓
Digitized Shape Preparation to Manage Point Cloud for Reverse Engineering	-	-	✓
Generative Shape Morphing to Accelerate Complex Tasks on Surface Models	-	-	✓
Clean CAD Models via Shape Healing	-	-	✓

3D Core Mechanical Engineering | Advanced Mechanical Functionalities | **From Design to Manufacturing** | Cloud Collaboration | Onboarding & Support

Multi-discipline Product Engineering Definition Management	✓	✓	✓
Integrated CAD & BOM Management on a Single, Unified Product Structure	✓	✓	✓
Real-time Integrated Deliverable Based Planning with Product Development Data	✓	✓	✓
3D Mock-Up Review	✓	✓	✓
Streamline Sheet Metal Design & Manufacturing	✓	✓	✓
Multi-discipline Engineering Definition Lifecycle management	✓	✓	✓
Product Structure Navigation & Cross Highlighting	✓	✓	✓

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3D Core Mechanical Engineering	Advanced Mechanical Functionalities	From Design to Manufacturing	Cloud Collaboration	Onboarding & Support
3DEXPERIENCE Platform Social & Structured Collaboration Foundations		✓	✓	✓
Business Process Workflow Execution		✓	✓	✓
Web Based 3D Data Visualization		✓	✓	✓
Browser-based 3D Visualization and Geometric Analysis Tools		✓	✓	✓

3D Core Mechanical Engineering	Advanced Mechanical Functionalities	From Design to Manufacturing	Cloud Collaboration	Onboarding & Support
Select your onboarding partner at checkout		✓	✓	✓
Ongoing online learning and support		✓	✓	✓
Access to dedicated user and support communities		✓	✓	✓

CATIA and SIMULIA Design and Simulation Bundles

3D Mechanical Engineering	From Design to Manufacturing	Simulation Capabilities	Productivity & Optimization	Cloud Collaboration & Compute

	ESSENTIAL	MASTER	ELITE
	$10,940 /year	$15,023/year	$30,227/year
Part and Assembly Design to Create Advanced Mechanical Products and Parts, from Conceptual to Detailed Phases	✓	✓	✓
Generative Sketch Constraints (AI)	✓	✓	✓
Functional Design and Advanced Feature-based Approach	✓	✓	✓
Direct Modeling Technology	✓	✓	✓
Update Strategies at Part/Feature Levels	✓	✓	✓
Quickly Design Generative Shapes with Wireframe or Surfacic Components	✓	✓	✓
Design of complex mechanisms to manage their movement	-	-	✓
AI-Driven Generative Functional Surfaces (Mechanical Interfaces)	-	-	✓

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3D Mechanical Engineering | **From Design to Manufacturing** | Simulation Capabilities | Productivity & Optimization | Cloud Collaboration & Compute

Multi-discipline Product Engineering Definition Management	✓	✓	✓
Integrated CAD & BOM Management on a Single, Unified Product Structure	✓	✓	✓
Real-time Integrated Deliverable Based Planning with Product Development Data	✓	✓	✓
3D Mock-Up Review	✓	✓	✓
Streamline Sheet Metal Design & Manufacturing	✓	✓	✓
Multi-discipline Engineering Definition Lifecycle management	✓	✓	✓
Product Structure Navigation & Cross Highlighting	✓	✓	✓

3D Mechanical Engineering | From Design to Manufacturing | **Simulation Capabilities** | Productivity & Optimization | Cloud Collaboration & Compute

Linear structural behavior analysis with Abaqus solvers	✓	✓	✓
Flexible parameterization & automation	✓	✓	✓
Results analytics	✓	✓	✓
Geometry idealization for advanced studies	-	✓	✓
Real structural behavior analysis and test simulation	-	✓	✓
Material parameter calibration for accurate results	-	✓	✓
Real structural behavior analysis in multiphysics scenarios	-	-	✓
Fluid behavior and plastics injection molding investigation	-	-	✓
Computational fluid dynamics simulation	-	-	✓
Analyze thermal behavior (e.g. peak temperatures)	-	-	✓
Plastic injection process optimization (filling, packing, cooling, warpage)	-	-	✓

3D Mechanical Engineering | From Design to Manufacturing | Simulation Capabilities | **Productivity & Optimization** | Cloud Collaboration & Compute

Unified Modeling and Simulation (MODSIM)	✓	✓	✓
Create simulation models from CAD	✓	✓	✓
Productivity boost with engineering templates	✓	✓	✓
Flexible parametrization and automation	✓	✓	✓
Parametric design studies	✓	✓	✓
Define constraints and targets	✓	✓	✓
Advanced parametric studies	-	✓	✓
Requirements and test case management	-	✓	✓
Design validation with minimal computational resources	-	✓	✓
Synthetic view for V&V coverage	-	✓	✓
Reusable test methods with linked evidence	-	✓	✓
Engineering templates for multiphysics studies	-	-	✓
Automatic test scheduling and progress monitoring	-	-	✓

3D Mechanical Engineering | From Design to Manufacturing | Simulation Capabilities | Productivity & Optimization | **Cloud Collaboration & Compute**

3DEXPERIENCE Platform Social & Structured Collaboration Foundations	✓	✓	✓
Business Process Workflow Execution	✓	✓	✓
Web Based 3D Data Visualization	✓	✓	✓
Browser-based 3D Visualization and Geometric Analysis Tools	✓	✓	✓
Perform Linear Analysis with Abaqus-solvers on 4 Cores on Cloud or Locally	✓	-	-
Advanced simulations on up to 184 cores (using Sim credits)	-	✓	✓
SimUnit 1K credits included	-	✓	✓
Simulation scaling for complex structural behavior	-	✓	✓
Cloud-based resources for high-performance computing	-	✓	✓
CFD simulations on 16 cores (cloud or local)	-	-	✓
Multiphysics simulation scaling for comprehensive analysis	-	-	✓
Advanced computational power for fluid and structural studies	-	-	✓

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