



DIGITAL INDUSTRIES SOFTWARE

NX X Design solutions

Delivering prepackaged high-performance CAD solutions

Benefits

- Boosts product design efficiency
- Accelerates mechanical design processes
- Improves collaboration
- Reduces design process waste
- Improves design quality
- Uses a single environment to facilitate processes from model to printed part

Summary

NX™ X software products are prepackaged Software as a Service (SaaS) solutions that offer NX CAD capabilities with more flexibility, security and scalability benefits. Based on the same architecture and data model, Siemens provides a unified user experience with deployment options to fit various business needs. Available in four performance tiers, the solutions are tailored to specific product development roles and can be upgraded for enhanced functionality. Each level of the solutions builds upon the other, providing increasingly sophisticated and advanced design capabilities.

The NX X Design Essentials, Standard, Advanced and Premium tiered solutions include base-level data management, and the Standard, Advanced and Premium tiers include everything you need to integrate with Teamcenter® software to provide optional extended engineering process management tools through scalable collaboration and advanced management. NX and Teamcenter are part of the Siemens Xcelerator business platform of software, hardware and services.

Features

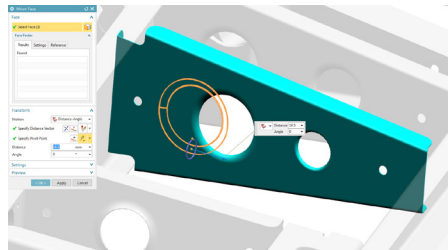
- End-to-end mechanical product design solutions with a rich set of supporting tools
- High-performance modeling, drafting and comprehensive assembly design powered by synchronous technology and Convergent Modeling
- Comprehensive, preconfigured SaaS solutions tailored for the full range of product design applications
- Power and flexibility that support virtually any design methodology, whether top-down or bottom-up
- Foundation for product lifecycle management
- Extendable with a selection of add-on application modules

NX X Design solutions

NX X Essentials

The NX X Essentials entry-level browser-based solution includes:

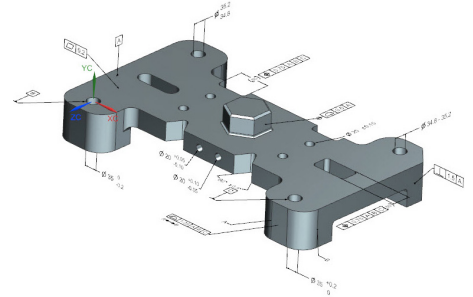
- Tools for creating and editing designs of typical mechanical components and assemblies with solid modeling and drafting
- Tools for sheet metal design, product and manufacturing information (PMI) and performance prediction



NX X Design Advanced

The NX X Design Advanced software solution includes all the capabilities of NX X Design Standard but also provides enhanced product design capabilities, including:

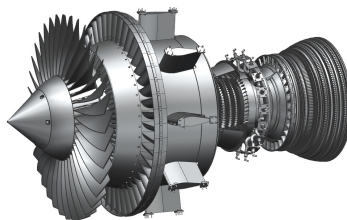
- Validation checking
- User-defined features
- Rendering
- 3D annotation for product and manufacturing information (PMI)
- Basic routing



NX X Design Standard

The NX X Design Standard solution builds upon NX X Essentials and also includes:

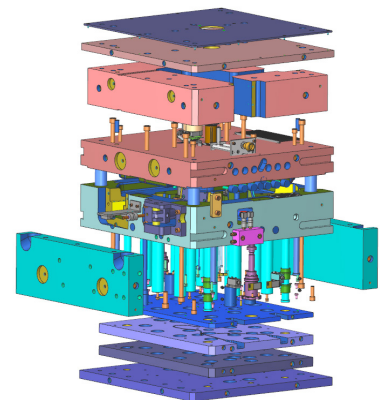
- Tools for basic freeform modeling and Convergent Modeling
- Tools for design review, rapid prototyping, web publishing, validation checking, a reuse library and custom program execution
- Design-oriented stress and vibration analysis wizards
- Tools for integrating with Teamcenter to provide powerful data management and visualization capabilities for product and process management



NX X Design Premium

The NX X Design Premium software solution includes all the capabilities of NX X Design Standard and Advanced, and includes a high-performance solution with NX capabilities for advanced assembly design, advanced freeform modeling and surface analysis, design optimization and molded part validation. It also includes additional artificial intelligence (AI)-enabled features.

For a quick overview of each solution, refer to the chart on the next page.



	NX X Essentials	NX X Design Standard	NX X Design Advanced	NX X Design Premium
Value Based Licensing				
Extendable with NX X Value Based Licensing		•	•	•
Data Management				
Teamcenter integration for NX X		•	•	•
Base-level data management	•	•	•	•
Design modeling				
Feature-based solid modeling	•	•	•	•
Synchronous technology	•	•	•	•
Core Convergent Modeling		•	•	•
Drafting	•	•	•	•
Assemblies	•	•	•	•
Advanced assembly modeling				•
Basic freeform modeling		•	•	•
Advanced freeform modeling				•
User-defined features			•	•
AI Select Similar Components				•
AI Selection Prediction				•
Process-specific modeling tools				
Sheet metal design	•	•	•	•
PMI	•		•	•
Basic routing			•	•
Industrial design				
Photorealistic rendering			•	•
Visualize shape			•	•
Freeform shape				•
Advanced surface analysis				•
Product validation				
Product validation			•	•
HD3D Visual Reporting OOTB reports		•	•	•
HD3D Visual Reporting custom report editing				•
Molded part validation				•
Run time licenses				
Run time for custom program execution		•	•	•
Data exchange				
DXF/DWG, IGES, STEP 203/214, JT, Solid Edge™ software open, SolidWorks open	•	•	•	•

Features in browser-based NX X Essentials may vary from the desktop NX X Design solutions capabilities.

Get started with NX X

Leveraging NX X Design solutions enables you to deliver comprehensive and scalable digital product development that addresses all stages of the product development process, from basic design through production.

Using the NX X Design solutions transforms the product development process and supports dynamic change within organizations by:

- Increasing innovation throughout the product development process
- Eliminating waste by better utilizing time, material and intellectual resources
- Improving quality from the beginning

Learn more about NX X Design solutions at <https://plm.sw.siemens.com/en-US/nx/cad-online/>



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