Summary
The NX MACH™ software products are prepackaged solutions delivering high-performance computer-aided design (CAD) capabilities of NX™ software, the leading solution for mechanical design. They offer competitively priced solutions tailored to specific product development roles, practices and processes, in four performance tiers. Value-added upgrades are available to move customers from one tier to the next. Each package delivers complete capabilities for production work.

NX MACH 1, 2 and 3 solutions include engineering process management capabilities for improved design team collaboration. Optional extended engineering process management tools provide scalable collaboration and advanced management.

All of the NX MACH design solutions share a common denominator of high-performance CAD functions and the ability to use powerful high-definition 3D (HD3D) Visual Reporting, enabling designers and engineers to quickly understand key elements of their designs. Each level of the solutions builds upon the other, providing increasingly more sophisticated and advanced design capabilities.

NX MACH Designer
This entry-level solution offers tools for creating and editing designs of typical mechanical components and assemblies, with solid modeling and drafting, basic freeform modeling and sheet metal design. It includes tools for design review, rapid prototyping, web publishing, validation checking, re-use library and custom program execution. It also offers design-oriented stress and vibration analysis wizards.

NX Layout
NX Layout is a fully integrated 2D concept design solution for NX. Built on proven NX technology, the software employs re-usable 2D components to enhance 2D concept design. Further, it can automatically create assembly structures based on 2D layouts to accelerate the detailed design phase. NX Layout provides a number of dedicated tools to support 2D design and layout, as well as 2D-to-3D capabilities.

Benefits
• Boosts product design efficiency
• Accelerates mechanical design processes
• Improves collaboration
• Reduces design process waste
• Improves design quality

Features
• End-to-end mechanical product design solution with a rich set of supporting tools
• High-performance modeling, drafting and comprehensive assembly design powered by synchronous technology
• Comprehensive pre-configured solutions tailored for the full range of product design applications

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NX MACH design solutions

**Features continued**
- Power and flexibility that supports virtually any design methodology, whether top-down or bottom-up
- A cornerstone of a complete product development system
- Foundation for product lifecycle management
- Extendible with a selection of add-on application modules

**NX MACH 1 Design**
This solution delivers all the capabilities of NX MACH Designer, plus a managed environment powered by Teamcenter® software, with data management and visualization capabilities for product and process management.

**NX MACH 2 Product Design**
The MACH 2 Product Design package provides enhanced product design capabilities, including flexible printed circuit board design, validation checking, user-defined features, rendering, 3D annotation for Product and Manufacturing Information (PMI) and basic routing.

**NX Cool Shape Design**
NX Cool Shape Design is a modeling-only environment delivering NX tools for fast and easy development of complex shapes. NX Cool Shape Design includes the advanced freeform tools and NX Realize Shape™ subdivision modeling.

**NX MACH 3 Product Design**
The MACH 3 Product Design package provides a high-performance solution with NX design capabilities for advanced assembly design, advanced freeform modeling and surface analysis, design optimization and molded part validation.

**NX MACH 3 Industrial Design**
MACH 3 Industrial Design delivers a broad range of NX design tools, and extends the freeform modeling capabilities with NX Realize Shape, bringing powerful subdivision modeling capabilities into the NX environment.

**Enhancing basic design through production**
The NX MACH design software packages deliver comprehensive and scalable digital product development system from Siemens PLM Software that addresses all stages of the product development process, from basic design through production.

The NX MACH packages transform the product development process and support 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

The NX MACH design solutions offer the following advantages:
- Unified solution – seamless application integration rapidly propagates changes to product and associated process information
- Engineering process management – fully integrated, synchronized product data and process knowledge management
- Knowledge-driven automation – re-use of product and process knowledge across all elements and phases of product development
- Integrated simulation and validation – comprehensive simulation and validation tools check product performance and manufacturability throughout every step of product development
**NX MACH design solutions**

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**NX MACH design capabilities**

**Design modeling**

**Feature-based solid modeling**

The core modeling capability in NX combines wireframe, surface, solid, parametric and direct modeling in a single environment that enables designers to choose the most appropriate tool for the task at hand. NX delivers full feature-based parametric solid modeling and advanced features including blends, thin-wall, draft, mirrored features, open profile features and patterns. In addition, direct modeling with synchronous technology offers a fast and intuitive approach to creating and editing designs using simple push-and-pull methods, and enables you to work directly with CAD geometry created on with other systems. For greater versatility and design flexibility, you can use synchronous modeling interchangeably with all of the other modeling tools. A configurable, role-based user interface displays the commands you need as you need them, and grows as your experience level grows.

**DesignLogic**

DesignLogic enables users to add design intent or knowledge as needed in the form of formulas and expressions. For example, a designer may want to drive the dimensions of a feature using a formula or mathematical expression. DesignLogic allows rich control of design parameters both at creation time and during future modification.

A powerful set of associative measurements allows a designer to not only use measurements as a tool in sizing and locating new features in the design, but also monitor critical dimensions of a design. You can also easily add validation checks to any design parameter or associative measurement. These validation
checks can be created on-the-fly or can be linked to external sources of design requirements, such as Microsoft Excel® spreadsheets. Validation checks help notify a designer if the value of a model expression ever strays from appropriate limits. Thus, DesignLogic helps a designer create smarter, self-checking designs that meet design requirements.

**User-defined features (UDFs)**

Designers using NX can capture and store families of features for easy retrieval, editing and re-use. User-defined features enable designers to establish relationships between parameters, define feature variables, set default values and decide the general form the feature will take. Existing UDFs reside in a re-use library that is accessible by anyone using NX modeling.

**Assembly design**

NX assembly design supports top-down and bottom-up assembly modeling. It provides for rapid navigation of the assembly hierarchy and allows direct access to the design model of any component or subassembly. It supports the “design in context” approach where changes can be made to any component of the design model while working in the context of the assembly.

NX MACH design packages include tools for building and manipulating assembly structures. The use of inter-part relationships enables the creation of parametric assemblies that capture and preserve the design intent whenever changes are made.

Assemblies can be easily traversed using the assembly navigator in conjunction with intelligent component searching capabilities. NX assemblies also include support for the creation of flexible assemblies and parts, enabling different arrangements and configurations of components such as springs and pistons.

**Advanced assembly modeling**

The advanced assembly modeling capabilities in MACH 3 packages enable you to simplify components or subassemblies into a single lightweight solid, to enclose assembly geometry in an envelope of planar faces, to partition assemblies into meaningful regions, and to manage weight and other mass properties of components and assemblies. Component filtering techniques allow users to quickly identify and load the components of relevance to their current task, avoiding unnecessary delays and screen clutter caused by loading irrelevant components.

Assembly enveloping techniques enable the user to represent major subassemblies as simplified abstractions to further reduce assembly load times and avoid the display of unwanted or proprietary interior detail. The sophisticated clearance analysis and weight management tools provided in advanced assemblies are also optimized for analyzing potential problems with fit, clearance and mass properties.

**Active mockup**

A complete digital mockup capability extends the toolset for building, editing and evaluating assembly models. It is especially useful when working with large assemblies, but also helps improve the productivity of most users who work regularly in an assembly context. Active mockup makes use of the standard, CAD-neutral, lightweight JT™ data format. This improves the performance and memory efficiency of loading and designing in the context of massive assemblies.
**WAVE control**
NX WAVE is a geometry linking tool that enables designers to define interpart relationships for parametric assembly modeling. WAVE assembly control structures and constraints help simplify design changes and accelerate modeling of configurations, options and variants.

**Basic freeform modeling**
Basic freeform modeling in NX provides tools for creating complex surface and solid models. Capabilities include:

- Creating solids from sheets
- Basic sweeping along curves
- Proportionally developed shapes using 1-, 2- and 3-rail methods
- Lofting – ruled, curve mesh, lofted shapes using standard conic methods and meshes of points and curves
- Special surface creation – surface extension and n-sided, bounded plane offset
- Surface manipulation tools – surface extension and surface normal control
- Body-based trimming
- Surface trimming using curves

**Basic routing**
NX MACH 2 and 3 deliver routing capabilities that allow designers create and edit pipe, tube and cable runs. The routing capabilities also enable intelligent part selection and placement of standard components such as elbows and tees. The routing capabilities can be extended by adding discipline-specific functionality for advanced applications including cabling, piping and tubing and heating, ventilation and air conditioning (HVAC).

**Flexible printed circuit design**
NX provides an environment for design of both flexible and rigid printed circuits. Based on workflows common to the design of printed circuit boards, the flexible printed circuit design tools help designers model printed circuits rapidly and accurately in the context of an assembly and send the outlines to manufacturing or to an ECAD system for further refinement. The printed circuit model developed in NX can be checked for clearances and tolerances, and then the finished board model can be transferred to an ECAD system for further refinement, such as component placement or circuit trace or layer development.

**Advanced freeform modeling**
Advanced freeform modeling extends the toolset to include complex filleting, blends and transition surfaces. Guided assistance accelerates the creation of solids from sheets, and the software also helps create surfaces from external point, pole and point cloud data.

**Freeform shape design**
Freeform shape design enables designers to create conceptual surfaces for quickly capturing initial design intent, as well as creating and editing curves directly on surfaces. It has direct surface modeling capabilities that maintain associative surface boundary continuity controls ranging from G0 to G3. Styled sweeps associatively sweep profile curves along multiple guides, and advanced surface trimming creates cut surfaces independent of original surfaces.

**Process-specific modeling tools**

**Sheet metal design**
NX provides a solids-based application that is focused on design for manufacturing of sheet metal parts. Designers can create sheet metal component models using feature-based design tools for tabs, flanges and other typical features. They can define forming tables and bend sequence tables, and reform the solid model, taking into account material deformation properties. The sheet metal tools generate accurate flat pattern data for downstream applications.

**NX Realize Shape**
NX Realize Shape delivers fast, intuitive subdivision modeling technology for more efficient design of complex shapes.

**NX Realize Shape**
NX Realize Shape uses subdivision modeling methods to enable customers to develop high-quality advanced 3D product forms in a fraction of the time required by traditional tools. NX Realize Shape is fully integrated with other NX modeling functions, allowing advanced shapes to be built and combined with traditional modeling approaches to develop advanced shapes quickly and easily.

It includes general-purpose design and manufacturing sweeps and flanges, including dynamic law extensions, silhouette flanges, ribbons and sectional sweeps. Designers can shape surfaces by direct point and pole manipulation, and with boundary, degree and stiffness controls. Surfaces can be trimmed, extended, offset, combined, divided or enlarged. Advanced surface analysis tools provide real-time graphical feedback that assists in analytical and visual evaluation of surface quality.

**Advanced freeform modeling**
Advanced freeform modeling extends the toolset to include complex filleting, blends and transition surfaces. Guided assistance accelerates the creation of solids from sheets, and the software also helps create surfaces from external point, pole and point cloud data.
Drafting and annotation

Layout for NX
NX offers tools that streamline 2D concept design. These include intelligent, parametric 2D components that can be dragged and dropped from the re-use library to accelerate creation of layouts and concepts; synchronous technology design tools for fast editing of 2D geometry; data conversion tools; and automated creation of 3D assemblies from 2D layouts.

GD&T, 3D annotation
With NX, designers can capture all types of geometry, tolerance and dimensioning information directly within the 3D model, rather than on a 2D drawing. NX 3D annotation associates product and manufacturing information with the 3D model, and complies with all the major concepts and requirements defined in the ASME and ISO standards for 3D product definition.

NX quickly and accurately associates tolerance information to geometric objects via tolerance features, including datums, feature control block and geometric dimensioning and tolerancing symbols. NX geometric tolerancing complies with the ASME and ISO standards for 3D product definition, and enforces the creation of standard-compliant designs.

PMI supports the creation of dimensions, weld and surface finish symbols, material specification notes, part identification labels and a number of other manufacturing and process-related annotations. Because the PMI is created in the 3D CAD model and directly associated to objects in the part, the information can be easily re-used by a number of downstream processes, from the 2D drawing to manufacturing and inspection. Incorporating PMI during the design process can enhance and shorten the development cycle through better communication, fewer errors, streamlined processes and faster change management.

Product validation

Product and data validation
NX validates product designs with a model quality assurance checking utility, NX Check-Mate, which evaluates parts, assemblies and drawings to confirm that:

- Files comply with corporate data quality standards
- Best practices for modeling and assemblies have been employed
- Drawings comply with international standards and corporate documentation best practices
- Poor quality geometric data imported from other systems is quickly uncovered and remedied before it becomes a larger problem (for example, mismatched edges, tiny gaps in faces and nonmanifold conditions common in lower-precision modeling tools).

Validation checks embedded in a design can also help notify a designer if the value of a model expression ever strays from within appropriate limits. These validation checks can be created on-the-fly or can be linked to external sources of design requirements, such as Excel spreadsheets. Companies can use the validation checking results to establish product quality metrics and pre-emptively head off quality issues in the earliest stages of the development process.

Drafting

NX drafting automates and streamlines engineering drawing production. Drawings are associative to models, so model changes automatically update and are reflected in related drawings. Drafting capabilities include dimensioning, symbols, tabular notes, sheet layout and placement of standard orthographic and auxiliary views, automatic view creation from the 3D model, hidden line processing and automatic parts list generation. Templates that include drawing borders and view layouts can be dragged and dropped into models to automate much of the work associated with manually created drawings. Drafting tools can be configured to comply with the drawing standard selected by the user – ANSI, ISO, JIS, DIN, GB and ESKD.
Molded part validation
NX MACH 3 packages include a molded part validation tool that enables designers to check the moldability, even if they know virtually nothing about mold design. NX analyzes parts and automatically provides designers with information about draft angles, undercut areas, sharp corners, small radiuses, and other items that could compromise molding quality. It also provides designers with an easy visual check of core and cavity sides.

HD3D Visual Reporting
HD3D Visual Reporting software blends information of interest from your company’s data sources directly into the 3D product design environment. This helps designers make easier unambiguous assessments, interpret information more accurately and synthesize product and process data rapidly into correct design decisions.

HD3D Visual Reporting comes with a set of predefined, out-of-the-box reports that provide your design teams with answers to a series of commonly asked questions. Reports related to ownership, check out, part maturity, projects, load status, validation status and more are available for instant use. With the authoring capability you can create and modify your own reports to extract and present the data that is key to your business.

Design optimization
Optimization Wizard
NX offers a tool that aids in understanding which parameters are key to design objectives. Users identify candidate variable design parameters and a design goal. The Optimization Wizard then applies sensitivity and filtering tools together with engineering constraints to identify the more critical design parameters and then optimize them. The step-by-step wizard provides engineers with a method to ensure that their product designs are optimized to best meet design goals. It also enables designers and engineers to capture engineering requirements, automate the exploration of alternatives and automatically identify optimized solutions.

Design utilities
Data exchange
NX data exchange tools include the most commonly used translators needed to bring data into and out of NX, including IGES, STEP AP203, STEP AP214, DXF/DWG, and 2D exchange. These translators include geometry repair and simplification capabilities to ensure the most useful data possible. All of the translators can be run externally from NX or directly inside NX from “File Import/Export” and “File Open/Save As” or from the command line, making them customizable to any workflow.

XpresReview collaboration
For ad hoc design reviews, the XpresReview software creates packaged files of lightweight design models and related documents that can be distributed via e-mail and viewed outside the NX environment with the free XpresReview viewer.
Web publishing
NX includes an HTML publishing tool for creating detailed documentation based on information in NX design files. Web publishing uses template files that contain both HTML and special NX embedded commands. These commands extract information from a design file and write it to an HTML file that can be read universally.

Rapid prototyping
NX enables users to automatically output model data in the faceted STL format used with rapid prototyping technologies, such as stereolithography and fused deposition. This capability reduces turnaround time regardless of the specific rapid prototyping technology employed.

Rendering
Rendering tools in NX can be used to communicate designs clearly and to create images that can be used throughout the design and manufacturing processes. Users can accurately visualize designs to reduce costs and shorten design cycles, and to specify real-world materials that will be used when their products are manufactured.

Custom program execution
All NX packaged design solutions can run custom programs that were developed with the NX Open software development tools.

Knowledge Fusion and custom wizard execution
MACH design packages can run applications created with the Knowledge Fusion knowledge-based engineering package and programs created with Process Studio wizard building tools.

Engineering process management, powered by Teamcenter, integrates product, process and program management with NX design tools.

Add-ons available
Customers can extend NX MACH design solutions with a selection of optional add-on modules. These add-ons enable customers to configure their design solutions to specific requirements such as specialized design tools, design-integrated simulation solutions, programming and customization toolkits, extended engineering process management and direct translators.

Applications include:
- Advanced and aerospace sheet metal
- Simulation
- Human modeling
- Customization/automation
- Automotive design
- Tool design
- Visual reporting and analytics
- Direct translators for other CAD systems

Dynamic and photorealistic rendering tools enable designers to apply textures, colors and lighting to visualize designs and create presentation-quality images.

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