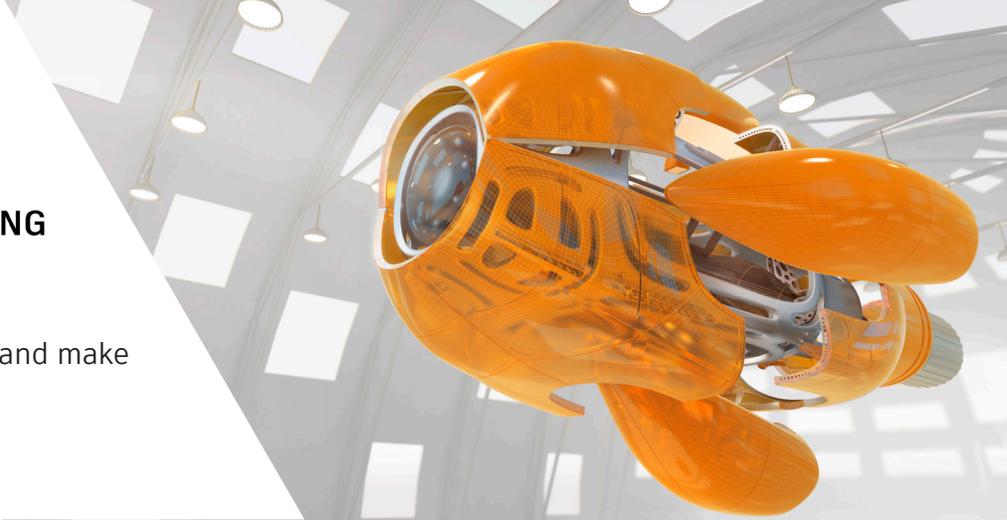




AUTODESK® PRODUCT DESIGN & MANUFACTURING COLLECTION

Everything your team needs to design and make great products.



Included Products	Inventor Professional	Product Design Suite	Collection
Inventor Professional <i>Professional-grade 3D mechanical design, documentation, and simulation.</i>	✓	✓	✓
Inventor Nastran <i>CAD-integrated FEA tools for engineers and analysts, powered by the Autodesk Nastran solver.</i>	-	-	✓
Inventor CAM <i>Integrated 2.5- to 5-axis CAM programming for Inventor.</i>	-	-	✓
Inventor Nesting <i>CAD-embedded, true-shape nesting software for optimizing yield from flat raw material.</i>	-	-	✓
Inventor Tolerance Analysis <i>Integrated analysis of GD&T in 3D models to understand the cost impact of dimensional variation.</i>	-	-	✓
Fusion 360 <i>3D CAD, CAM, and simulation in a single cloud-based platform on a Mac or PC.</i>	-	✓	✓
AutoCAD <i>Work with TrustedDWG™ technology for 2D and 3D design, and collaborate across desktop, cloud, and mobile.</i>	-	✓	✓
AutoCAD Mechanical <i>All the functionality of AutoCAD, plus comprehensive libraries of mechanical parts and design tools.</i>	-	✓	✓
AutoCAD Electrical <i>All the functionality of AutoCAD, plus a complete set of tools for electrical design.</i>	-	✓	✓
AutoCAD Architecture <i>Architectural drafting and documentation facilitates collaboration for factory design.</i>	-	-	✓
Factory Design Utilities <i>Provides the tools to plan and design the factory layout and improve production performance.</i>	-	-	✓
Navisworks Manage <i>Coordinate entire projects in one interface for simulation and review among team members and stakeholders.</i>	-	✓	✓
ReCap Pro <i>Convert reality capture into a 3D model or 2D drawing that is utilized in the design process.</i>	-	✓	✓
3ds Max <i>Produce professional-quality 3D animations, renderings, and models.</i>	-	✓	✓
Vault Basic <i>Organize design data, manage documentation, track revisions, and other development processes.</i>	✓	✓	✓

Product design & engineering	Inventor Professional	Product Design Suite	Collection
3D mechanical design <i>Professional-grade 3D mechanical design, documentation, and product simulation tools.</i>	✓	✓	✓
Design automation & product configuration <i>Design standard components quickly and set up and deploy complex product configurations.</i>	✓	✓	✓
Flexible modeling tools <i>Use the appropriate modeling strategy for every job with parametric, freeform, and direct modeling tools.</i>	✓	✓	✓
Shape generation <i>Provides the optimal location of solid geometry based on applied loads.</i>	✓	✓	✓
AnyCAD <i>Work with data from major 3D CAD systems and maintain an associative link.</i>	✓	✓	✓
Model-based definition <i>Use 3D annotations to add tolerance dimensions, notes, and other engineering details to the 3D model.</i>	✓	✓	✓
Electrical controls system design <i>Link Inventor and AutoCAD Electrical data for better collaboration between mechanical and electrical design.</i>	-	✓	✓
Native DWG documentation <i>Compatible DWG technology for AutoCAD, Inventor, and Revit.</i>	✓	✓	✓
Tolerance stackup analysis <i>Reduce tolerance issues during manufacturing by running an analysis of the GD&T in a 3D model.</i>	-	-	✓

Simulation	Inventor Professional	Product Design Suite	Collection
Linear static stress <i>Virtually test parts and assemblies for high concentrations of stress and deflection.</i>	✓	✓	✓
Natural frequency (modal) <i>Determine the mode shapes and frequency levels of the design.</i>	✓	✓	✓
Dynamic simulation <i>Simulate and analyze the dynamic characteristics of an assembly in motion under various load conditions.</i>	✓	✓	✓
Autodesk Nastran solver <i>Gain FEA results from a trusted and accurate analysis solver.</i>	-	-	✓
Nonlinear structural analysis <i>Improved accuracy for large deflections, contact, and additional material models such as plastics and rubber.</i>	-	-	✓
Fatigue <i>Predict the life and durability of the design as cracks begin to form due to repetitive loading conditions.</i>	-	-	✓
Heat-transfer <i>Examine the temperature of components by analyzing conduction, convection, and radiation.</i>	-	-	✓
Frequency response <i>Determine the structural harmonic response based on frequency-dependent loads.</i>	-	-	✓

CAM	Inventor Professional	Product Design Suite	Collection
3-axis milling and 3+2 positioning <i>Choose from several 3-axis styles, and perform 3+2 axis positioning with the same CAM strategies.</i>	-	-	✓
Traditional turning and advanced mill/turn <i>Improve productivity with traditional turning, facing, grooving, and boring functions.</i>	-	-	✓
5-axis and multi-axis operations <i>Simultaneous 4- and 5-axis features for machining complex models.</i>	-	-	✓
Automated true-shape nesting <i>Generate multiple sheet nests to reduce raw material waste and optimize the use of flat raw materials.</i>	-	-	✓

Factory planning & design	Inventor Professional	Product Design Suite	Collection
2D & 3D factory layout <i>Plan and validate factory layouts for efficient equipment placement to improve production performance.</i>	-	-	✓
Process optimization <i>Simulate manufacturing processes early before spending time in layout.</i>	-	-	✓
Reality capture <i>Convert reality capture into a 3D model or 2D drawing that is utilized in the design process.</i>	-	-	✓
Collision detection <i>Detect equipment collisions prior to installation and commissioning.</i>	-	-	✓
Design review & visual walkthrough <i>Coordinate entire projects in one interface for simulation and review among team members and stakeholders.</i>	-	-	✓
Factory Asset Warehouse <i>Access to a shared cloud-based library containing thousands of standard and name brand equipment.</i>	-	-	✓

Data management	Inventor Professional	Product Design Suite	Collection
CAD integrated data management <i>Experience the benefits of data management in the familiar CAD design environment.</i>	✓	✓	✓
Advanced search tools <i>Utilize part and assembly property information for single or combined search criteria.</i>	✓	✓	✓
Design reuse <i>Configure existing design files to replace, reuse, or copy for use in new design projects.</i>	✓	✓	✓
File check-in and check-out <i>Enable design teams to effectively work together on the same project.</i>	✓	✓	✓