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Architecture Engineering & Construction Collection

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What is the Architecture, Engineering & Construction Collection?

The AEC Collection provides designers, engineers and contractors a set of BIM and CAD tools that support projects from early-stage design through to construction.

- Create high-quality, high-performing building and infrastructure designs with conceptual and detailed design tools.
- Optimise projects with integrated analysis, generative design and visualisation and simulation tools.
- Improve predictability in the field with tools that maximize constructability and project co-ordination.

Industry Specific Tools

Products	Building	Infrastructure	Construction	Plant Design
Revit	✓	✓	✓	✓
Advanced Steel	✓	✓	✓	✓
Civil 3D	✓	✓	✓	
InfraWorks		✓		
Dynamo Studio	✓	✓	✓	✓
3DS Max	✓	✓	✓	
ReCap Pro	✓	✓	✓	✓
Navisworks Manage	✓	✓	✓	✓
Structural Bridge Design		✓		
Vehicle Tracking		✓		
Robot Structural Analysis Professional	✓	✓		
FormIt Pro	✓			
Insight	✓			
Fabrication CADmep	✓		✓	
AutoCAD Toolsets (Electrical, Map 3D, Mechanical, MEP, Plant 3D, Raster Design, AutoCAD Mobile and AutoCAD Web)	✓	✓	✓	✓
Autodesk Rendering	✓	✓	✓	✓
Autodesk Drive	✓	✓	✓	✓
Autodesk DOC(CDE)	✓	✓	✓	✓

Scroll down to know more about products in AEC Collection

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RVT	Use Revit® to drive efficiency and accuracy across the project lifecycle, from conceptual design, visualisation and analysis to fabrication and construction. • Begin modelling in 3D with accuracy and precision. • Automatically update floor plans, elevations and sections as your model develops. • Revit features tools for architecture, engineering(MEP) and construction(Structural) professionals. • Contributors across all disciplines work together in Revit, helping them to deliver projects more efficiently and with fewer errors
C3D	• Design, optimise and document carriageway, bridge and rail projects • Engineer surfaces, terrain, parcel layout and pipe design networks • Design and lay out the process plant P&ID and piping models
ADS	Advance Steel is 3D modelling software for steel detailing, design, fabrication and construction. Structural engineers can use a bi-directional link between Advance Steel detailing software and Revit to collaborate on the same 3D model, saving time and minimising errors.
IWX	• Lay out conceptual roads, analyse traffic and visualise designs • Visualise and analyse site projects in a 3D conceptual environment • Visualise design intent and the state of the project's progress
PRO	Robot Structural Analysis Professional is structural load analysis software that verifies code compliance and uses BIM-integrated workflows to exchange data with Revit. It can help you to create more resilient, constructible designs that are accurate, coordinated, and connected to BIM.
MAX	• Visualise high-quality architectural renderings • Realistic 3D visuals and textures • Embellish lavish details • Create detailed 3D walkthroughs
PRO	Use ReCap™ Pro 3D scanning software to create 3D models from imported photographs and laser scans. Deliver a point cloud or mesh in support of BIM processes. Collaborate across teams with design based on reality.

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NAVISWORKS MANAGE	Use Navisworks® project review software to improve BIM (Building Information Modelling) co-ordination. (Also used in AEC Collection / Infrastructure design) • Combine design and construction data into a single model. • Identify and resolve clash and interference problems before construction. • Aggregate data from multiple trades to better control outcomes. • Control schedules and costs using 4D and 5D simulation. • Easily capture material quantities from 2D or 3D designs.
Dynamo Studio	Dynamo Studio is a visual programming environment that enables designers to explore parametric conceptual designs and automate tasks. • Integrate automation into the BIM (Building Information Modeling) process. • Extend your designs into interoperable workflows for documentation, coordination, and analysis. • Write code using a simple and powerful scripting interface.
VEHICLE TRACKING	Conduct swept path analysis to facilitate parking lot layout, roundabout design, and other design challenges impacted by vehicle movement. • Vehicle swept path analysis • Evaluate safety standards compliance • Parking lot design • Roundabout design • Airport design • Light rail and tram design
SUBD	Structural Bridge Design is bridge analysis software for small to medium-span bridges used by engineers to deliver design reports faster. Section design, Girder design, Loading, analysis, design, Visual engineering and Design calculation reports
FORMIT PRO	Sketch early-stage design concepts in 3D. Connects with Revit. Create massing studies in FormIt, then use Revit for quantification and presentation. Bring 3D terrain and roadway information into FormIt with Infraworks. View a FormIt model in Revit 2021 for real-time enhanced navigation, walkthroughs.
INSIGHT	Insight empowers architects and engineers to design more energy-efficient buildings with advanced simulation engines and building performance analysis data integrated in Revit.

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F MEP	Create fabrication-ready models of piping, plumbing, or ductwork systems in AutoCAD using CADmep.
R RND Rendering	Take advantage of extensive computing power, thanks to the cloud rendering capabilities in Autodesk® Rendering. So, you can create photorealistic and high-resolution images in less time.
D DRV Drive	Securely store, preview and share your 2D and 3D design data in Cloud.
A CAD	AutoCAD® is computer-aided design (CAD) software that architects, engineers and construction professionals rely on to create precise 2D and 3D drawings. Draft, annotate and design 2D geometry and 3D models with solids, surfaces and mesh objects. Automate tasks such as comparing drawings, adding blocks, creating schedules and more
A ARC Architecture	Adds features for architectural drawing, documentation and schedules, and for automating drafting tasks. • Create floor plans, sections, elevations and other building design drawings using specialised tools. • Additional features include walls, doors and windows. • Use 8,000+ intelligent architectural objects and styles to support AIA 2nd edition, BS1192 DIN 276, ISYBAU Long Format, ISYBAU Short Format and STLB layer standards.
A MEC Mechanical	Adds a library of standards-based parts and tools to help you to create, modify and document mechanical designs for manufacturing. • Automate mechanical engineering tasks, such as generating machine components, dimensioning and creating bills of material. • Create parts, assemblies and other drawings for product design using specialised tools. • Use 700,000+ intelligent manufacturing parts, features and symbols to support ISO, ANSI, DIN, JIS, BSI, CSN and GB standards.
A ELC Electrical	Adds electrical design features to help you to create, modify and document electrical controls systems. • Create panel layouts, schematic diagrams and other electrical drawings using specialised tools. • Use consistent project standards with drawings organised in a project-based structure. • Includes a library of 65,000+ intelligent electrical symbols to support AS, GB, IEC, IEC-60617, JIC, JIS, NFPA and IEEE standards.

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MEP	Adds features to help you draft, design and document MEP building systems in an AutoCAD environment. • Create accurate construction documentation of MEP systems design. • Use task-based tools to create MEP drawings for building systems. • Use 10,500+ intelligent MEP objects to support AIA 2nd edition, BS1192 Descriptive and BS1192 – AUG Version 2 standards, and DIN 276, ISYBAU Long Format, ISYBAU Short Format and STLB layer standards.
Map 3D	Incorporate GIS topology with AutoCAD so you can use and maintain CAD and GIS data for planning, design and data management. • Create, maintain and communicate mapping and GIS information within the AutoCAD drawing environment. • Use task-based tools to manage GIS data and aggregate it with design data. • Access spatial data stored in files, databases and web services. • Use standard data schema, automated business workflows and report templates for Electric North America, Electric Europe, Water, Wastewater and Gas industries.
Plant 3D	Adds features to help you produce P&IDs and then integrate them into a 3D plant design model. • Generate and share isometrics, orthographic and materials reports. • Create schematic diagrams, plant layouts and other drawings for plant design using specialised tools. • Includes a library of 400+ intelligent plant objects such as equipment templates, support templates and structural members to support 40 standards, including ANSI and DIN.
Raster Design	Adds raster-to-vector tools to help you to convert raster images into DWG™ objects. Edit scanned drawings in a familiar AutoCAD environment. • Despeckle, bias, mirror and touch up your images. • Use standard AutoCAD commands on raster regions and primitives. Easily erase raster images, lines, arcs and circles. • Create lines and polylines from raster images and convert raster files into vector drawings. • Show and analyse geo images in Civil 3D civil engineering software and the Map 3D toolset.
Download on the App Store GET IT ON Google Play AutoCAD mobile app	• Take the power of AutoCAD wherever you go. • View, create, edit and share AutoCAD drawings on mobile devices — anytime, anywhere. • Work on the latest drawings right at the jobsite. • Access updates in real time.
Autodesk Docs	Organise, distribute and share files with the Autodesk® Docs cloud-based common data environment on the Autodesk Construction Cloud platform. • Reduce errors and rework • Save time with streamlined review and approval workflows • Improve team alignment and project scheduling

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