Welcome to Bricsys®

The innovative and intuitive CAD for 2D, 3D, BIM and Mechanical design and the powerful CDE cloud.

Build for better performance at exceptional value.

Build Better.

The four principles guiding the Bricsys teams to build a better CAD ecosystem for our user-community

Challenge the status quo through CAD-based innovation

Architects, designers and engineers innovate everyday with exceptional skills. We share and support this passion to challenge. And we continue to build a powerful CAD ecosystem that deepens your knowledge and talent.

Intuitive to use, learn and adopt

Our teams deliver CAD solutions with tools which are intuitively simple for all professions to learn and adopt easily into their workflows. And we prioritize your total user experience when buying, implementing and upgrading.

Harness new technology to super-charge productivity

We invest heavily in research and development to bring new capabilities and compatibility in CAD that drive productivity. And we keep adding innovative new tools and commands with AI and machine learning to free your creativity.
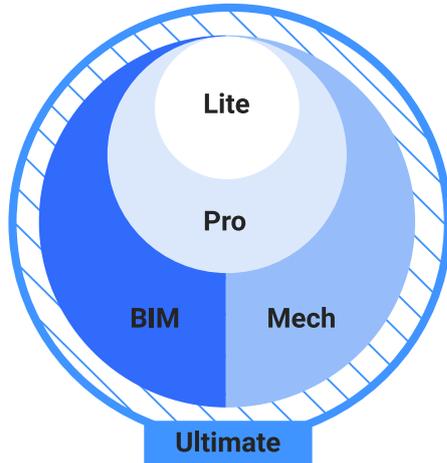
Interoperable and open

Bricsys will never trap users' data in walled gardens. Bricsys' CAD ecosystem is an open platform which gives you command over your data. And our CAD ecosystem is highly interoperable with industry-standard APIs for users' and third-party applications.

About our products

BricsCAD®

- Lite
- Pro
- BIM
- Mech
- Ultimate

Bricsys® 24/7

- Document Management
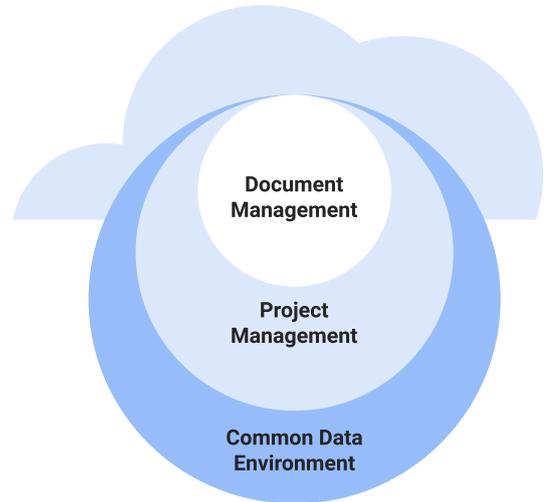- Project Management
- Common Data Environment

At Bricsys®, we develop CAD-based solutions for users in design, AEC, engineering and manufacturing. And we support collaborations across these sectors with our powerful CDE platform for construction and civil projects.

Bricsys is the only vendor offering a single platform for CAD, BIM and Mechanical design.

- **BricsCAD® Lite**: simple, powerful edition for 2D workflows, with LISP interpreter, or develop own in our Advanced Development Environment.
- **BricsCAD® Pro**: flagship CAD solution serving all industry sectors with access to our robust APIs to expand capability.
- **BricsCAD® BIM**: industry-specific 3D and BIM capabilities built on the core 2D functionality of BricsCAD® Pro.
- **BricsCAD® Mechanical**: advanced manufacturing design tools, built on the BricsCAD Pro 2D and 3D native DWG platform.
- **BricsCAD® Ultimate**: all-in-one Mechanical and BIM solution for building product manufacturers to design in the context of their building.

For AEC professionals, we developed Bricsys® 24/7 for multidisciplinary teams in design, engineering and construction to collaborate seamlessly and efficiently.

Bricsys® 24/7 is a simple, powerful document management solution for unlimited users on project teams and building owners to have the right documents, at the right time.

AEC users working on Bricsys® 24/7's cloud-based CDE enjoy a wide range of capabilities to automate file and date exchange. In real-time, all assigned personnel can have full visibility of their workflow's latest information.

- **Document Management**: workflows like RFIs, bid submittals, and daily audit reports.
- **Project Management Information**: intelligent automation to enter data and project information into workflows, ensuring management and regulatory compliance.
- **Common Data Environment**: connects unlimited users with role-based permissions across multiple teams with secure and trusted project data, documentation and workflows.

Lite | Pro | BIM | Mechanical | Ultimate | 24/7

BricsCAD®

Discover the difference

Powerful, intuitive and interoperable CAD and modeling tools for designers, innovators and engineers

How our customers create with their design software is central to the products we build. We develop CAD solutions with intuitive tools and commands for a better user and creative experience.

At the core of the BricsCAD products is a powerful and compatible CAD-based platform. We innovate to add and enhance features for productivity, with greater automation driven by AI and machine learning.

BricsCAD solutions remove complexity from drafting, designing and modeling. And users can harness their CAD knowledge and skills to create in 2D, 3D modeling and BIM workflows.

Own your software

Bricsys' customers can choose to buy BricsCAD with a perpetual licence, helping to manage the cost of CAD software ownership.

Network licenses

With our shareable networked license, you can purchase or subscribe to BricsCAD, and share your license across multiple users on the same network.

Flexible maintenance

The annual Maintenance subscription allows perpetual license owners to stay up-to-date with all BricsCAD product releases. Users also benefit from priority support from our expert team across the three latest versions.

One platform

Move from concept to creation with all the tools you need on one platform to design, build and manufacture. In this single DWG-format, businesses can leverage their people's skill-sets of 2D, 3D and modeling.

Quad   ⚡ A.I.

BricsCAD's unique Quad palette intelligently predicts your command usage and offers one-click access to the next command required.

Command Assist ribbon panel   ⚡ A.I.

The AI-powered assist ribbon panel suggests commands that a user could need next, based on typical workflow patterns which other users have followed.

Lite   Pro   BIM   Mechanical   Ultimate

Manipulator

The Manipulator tool provides greater flexibility and power for users. The ruler and protractor enable you to precisely modify geometry.

CopyGuided   ⚡ A.I.

CopyGuided and MoveGuided automatically align selected entities to relevant geometry using automatically-generated guide curves for both 2D and 3D* data.

BLOCKIFY   ⚡ A.I.

Convert repeated geometry into blocks using BLOCKIFY. The command automatically creates a block definition and replaces all matching sets of entities with block references throughout your design.

Parametric Blocks

Parametric Blocks enable faster drawing creation, changes and reconfigurations by reusing geometry. Our Block converter can also convert legacy-CAD Dynamic Blocks into native BricsCAD Parametric Blocks.

Point-clouds*

Our Point-cloud tools support industry-standard formats, including HSPC. This assists users to navigate large files smoothly, while the intelligent filtering tools help users turn data into workable surfaces.

OPTIMIZE

The OPTIMIZE command automatically cleans up a drawing to add to users' productivity. The tool recognizes and corrects misaligned lines and can close gaps and rounds geometry to the nearest value.

Drawing Health Management

The Drawing Health Management function brings together all existing optimization tools in one single, convenient place to keep drawings healthy.

Drawing Explorer

The Drawing Explorer in BricsCAD provides a fast and effective way to control many different aspects of a drawing in a single tool.

*Not available in BricsCAD Lite

High-performing, compatible and concise 2D drafting and detailing

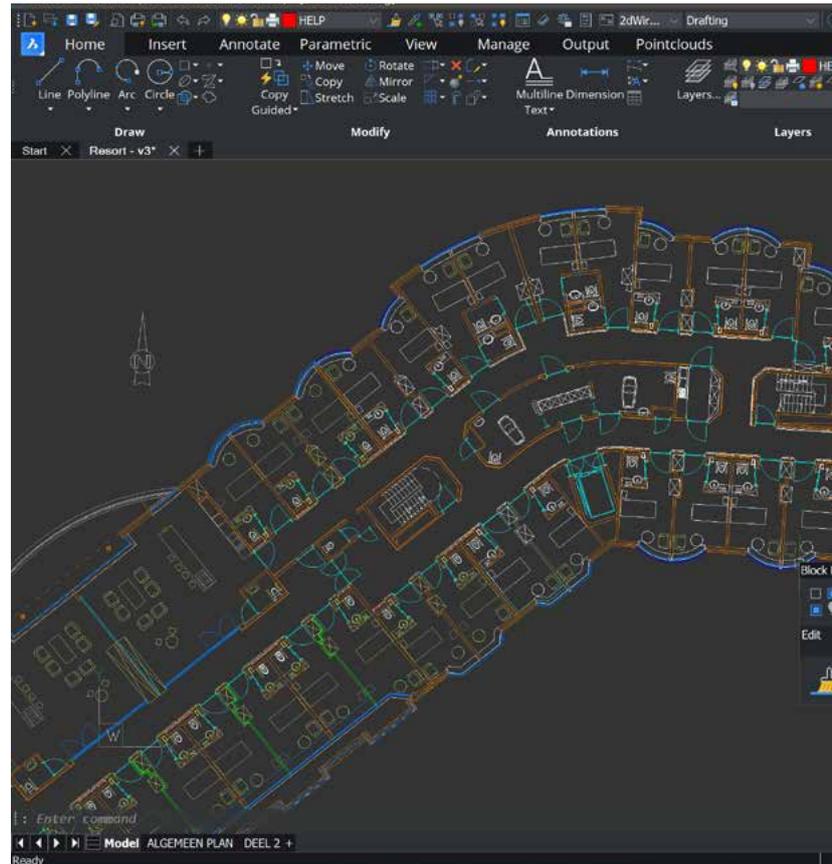*For designers, drafters and engineers who need fast, flexible and affordable CAD*

BricsCAD Lite is our entry-level 2D CAD product, based on the industry-standard DWG format. Enabled for users to create detailed 2D drawings and documentation quickly, the Lite version has a familiar user interface and provides tools for 2D drafting and detailing.

Users can customize via LISP and run existing LISP code to handle industry-specific workflows.

For light CAD users

BricsCAD Lite is the perfectly balanced CAD software for engineers and designers who need access to a professional CAD software without the top-end features of BricsCAD Pro.

Businesses and users benefit from the most competitive pricing with the highest capability. And with flexible licencing and native DWG format, BricsCAD Lite delivers the perfect solution to upgrade from legacy-CAD systems.
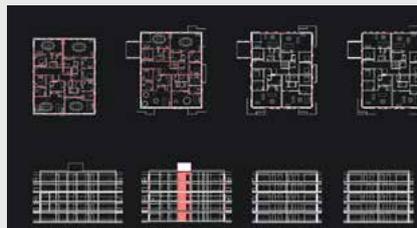

With BricsCAD® Lite you can…

Review and edit 2D drawings

BricsCAD Lite can be used to open 2D drawings quickly in many formats, and the comprehensive set of intelligent drafting tools enables users to easily and intuitively update them.

Optimize drawings from clients and suppliers

The unique and powerful set of optimization tools in BricsCAD Lite allows users to easily resolve issues, remove unwanted duplications, and ensure clean drawings. This offers greater performance and efficiency from data received from clients and suppliers.
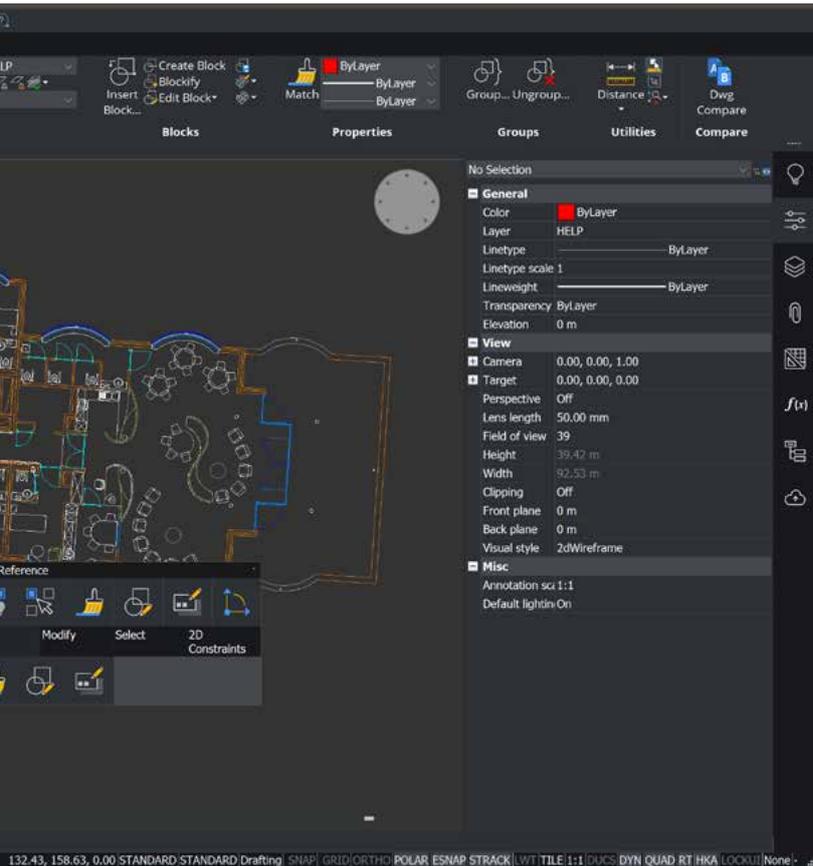

Open and view DWG files of any size

BricsCAD is fully compatible with the industry standard DWG format. With high performance, users can open any files from a legacy-CAD product and work on drawings from clients easily, quickly and reliably.

Familiar interface
Leverage the team's existing knowledge and skills to change effortlessly from AutoCAD® to BricsCAD®.
· Command compatible
· Menu (.CUI, .CUIX) compatible
· Macro/script compatible
· Support file (.PC3, .LIN, .PAT, .DWT, .SSM) compatible

Highly compatible
With high compatibility, users do not have to change printer set-up, drawing templates, blocks nor sheet-set layouts to BricsCAD. BricsCAD is based on native DWG for the highest compatibility.
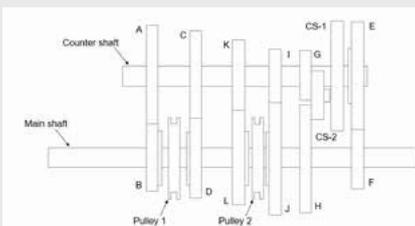
High performance
BricsCAD supports multi-threaded, multi-processor operations to speed up product performance for file loads, drawing generation and rendering.

Powerful LISP interpreter
Run LISP routines developed in other CAD applications or develop your own in the BricsCAD LISP Advanced Development Environment (BLADE).

Innovative BricsCAD tools
In addition to familiar CAD functionality, BricsCAD Lite comes packed with innovative tools such as BLOCKIFY, OPTIMIZE, and many more tools and commands to super-charge workflow productivity.
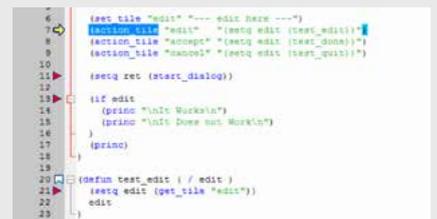

Develop preliminary 2D design layouts

BricsCAD Lite provides a full set of 2D drafting tools to rapidly create preliminary design schemes and layouts. As part of BricsCAD single design platform, the schemes can be easily referenced by users of other BricsCAD products.

Give occasional users shareable licences

With the cost-effective and flexible network for non-user-specific licenses, BricsCAD Lite is ideal for granting access of DWG-based CAD to stakeholders who need it occasionally, such as Purchasing and Quality teams.

Unlock the power of LISP

With BricsCAD Lite, user can deploy existing LISP routines to benefit from scripts already created in legacy-CAD software. This accelerates workflows by quickly automating routine tasks within BricsCAD Lite.

Powerful, intuitive and interoperable 2D/3D CAD and Modeling

For professionals in AEC, Civil and Manufacturing to design with productive accuracy and customized workflows
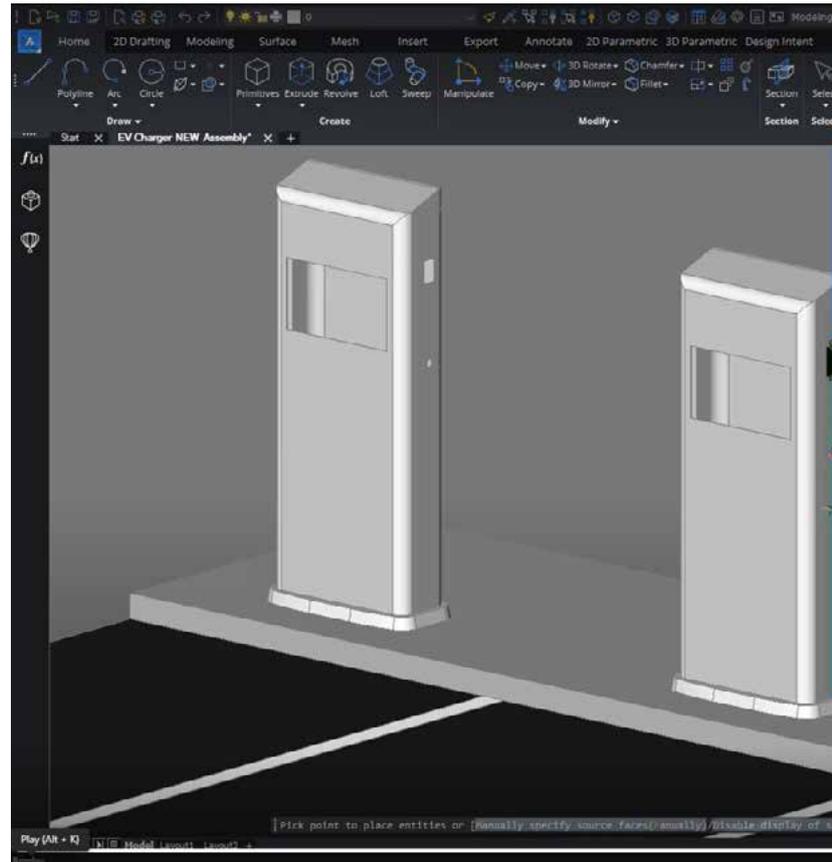

BricsCAD Pro is our flagship 2D and 3D CAD product, based on a standard DWG format. Pro features tools for 2D drafting and detailing, 3D parametric solid modeling, civil surface creation, and point-cloud visualization.

Users can include partner apps as part of their workflows, and customize via APIs. As a powerful and solid CAD platform, we build BricsCAD BIM and Mechanical from this base.

Professional performance

BricsCAD Pro is designed for AEC and manufacturing professionals with specific workflows requiring extended capability above the comprehensive 2D drafting and detailing functionality.

With 3D functionality, additional industry tools and access to an extensive catalogue of applications through our API, BricsCAD Pro delivers the high-performance required.

With BricsCAD® Pro you can...

Document building designs

BricsCAD offers cost-effective, modern and intelligent CAD solutions which allow Architects and Engineers to solve design problems faster and document designs easier, with familiar tools, apps and work environment.
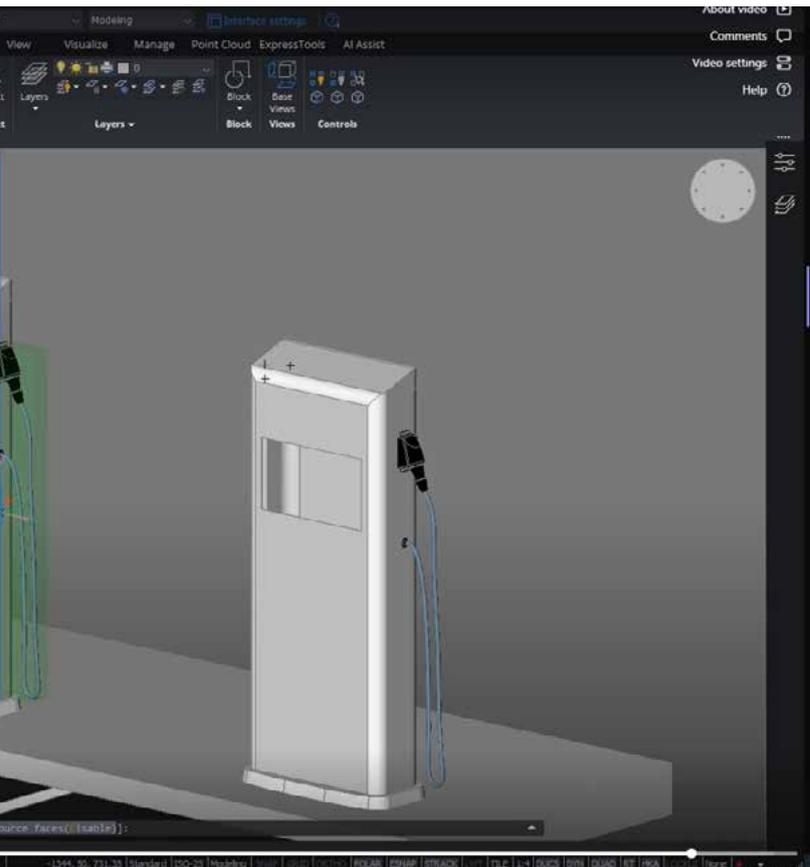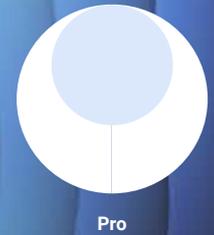

Create preliminary civil corridor designs

Using BricsCAD Pro's alignment and corridor template tools, Civil Engineers can create preliminary corridor designs and models for linear objects such as roads, cycle paths and retaining walls.

Deliver 2D trade and shop drawings

Field and Project Engineers can upgrade their current DWG-based CAD to a familiar, yet more modern and productive solution with intelligent AI tools. For users and businesses, our Pro version delivers faster performance at a lower cost of ownership.

Easy drawing generation

Automatically generate associative orthographic and standard isometric views of your 3D models, with full control over the layout and style of the views. Then, use the powerful detailing tools in BricsCAD to document designs

Parametric Blocks

Parametric Blocks automate repetitive tasks by enabling fast drawing creation, changes and reconfigurations. The function allows you to create one block and reuse the geometry in an intelligent and adaptable way within the model.
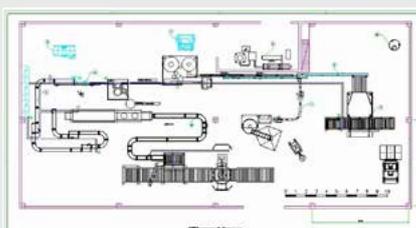
Point-clouds

Point-cloud visualization tools in BricsCAD Pro support industry-standard point-cloud formats and let you navigate massive point-clouds smoothly and quickly. Our intelligent point-cloud filtering enables users to generate workable TIN surfaces without loss of accuracy.

Civil engineering tools

BricsCAD offers a range of civil design tools for creating and editing TIN surfaces, grading and alignments and includes boundary trim and corridor editing. BricsCAD is interoperable with civil 3D drawings and other GIS and mapping data.
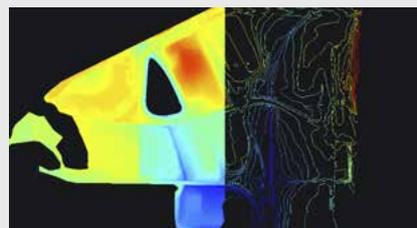
Third-party Apps

With powerful C++ and .NET APIs, BricsCAD Pro is highly compatible with the APIs of legacy-DWG products. This enables users to port in-house tools.
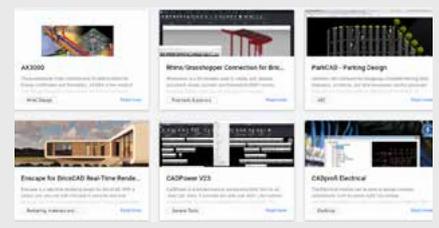
Design manufacturing facility layouts

Manufacturing Engineers can optimize the layout of new production facilities or retool existing ones in 2D or 3D. Pro offers efficient and intelligent design tools, which allow users to place equipment and make modifications simply and easily.

Develop civil TIN surfaces

With BricsCAD's advanced toolset, Land Surveyors can import and configure large point-clouds, and filter unnecessary points to quickly create the optimum workable TIN Surface as a basis for their design work.

Extend your workflow

Choose from hundreds of high quality, effective partner apps to best manage your specific industry workflows. Benefit from the expertise of our many knowledgeable partners to make your design processes as efficient as possible.

AI-driven BIM built on a compatible 2D and 3D design platform

For architects, engineers and contractors to create BIM with advanced CAD and modeling capabilities

BricsCAD BIM is an AI-driven CAD software that adds industry-specific 3D and BIM capabilities to the core 2D functionality of BricsCAD Pro. Our BricsCAD family of products for the building sector – Lite, Pro and BIM - form a single platform, where users can move easily between 2D and 3D workflows.
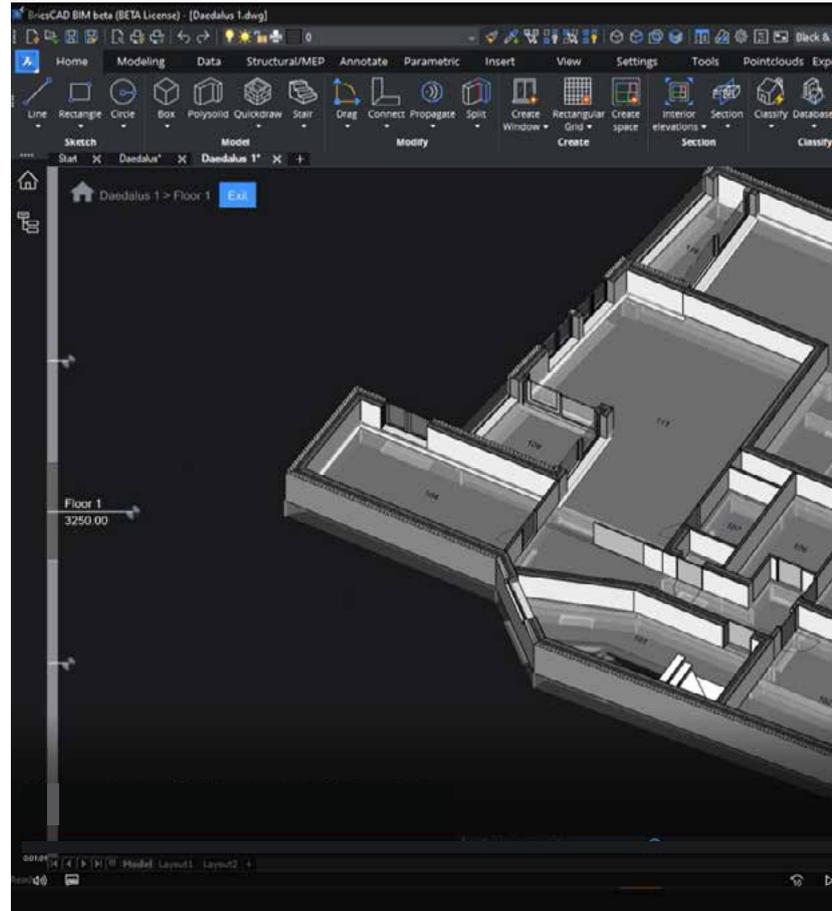
BricsCAD BIM is well-designed for small or solo CAD users in the AEC industry, who haven't made the move to BIM. It is also a simple, lightweight solution for those CAD users who only want to work with IFC files and participate in BIM workflows in their familiar software environment.

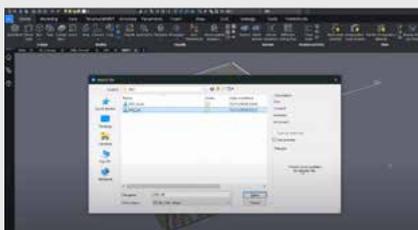## Easy and secure transition for CAD users to BIM

Moving from CAD to traditional BIM software presents risks to small businesses in the building sector. The typical 6-12 months to master BIM software can be a highly disruptive transition, and quite often users revert to CAD and waste the investment. Clearly, presented with this transitional risk, small AEC businesses forgo re-tooling to BIM.

With BricsCAD BIM, small AEC businesses can safely and simply provide the BIM tools their users need for complete workflow collaborations. Because our BIM version is built on CAD, users can start with 2D drafting and gradually add 3D and BIM capabilities to workflows. This capability to gradually add 3D and BIM workflows within a familiar CAD environment removes the risks and disruption associated with moving to any other traditional BIM software.

From working on 3D in BIM, users can transition to more advanced workflows, like scan-to-BIM or leverage the AI-automation tools for accurate, advanced 3D-modeling of complex structures.
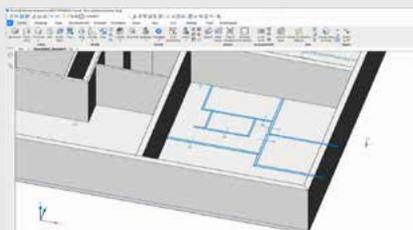

With BricsCAD® BIM you can...

Work with IFC files in CAD

BricsCAD BIM allows users to continue working in their familiar 2D CAD environment, while gaining the ability to participate in BIM projects by importing IFC files from designers or sharing IFC files with other stakeholders.
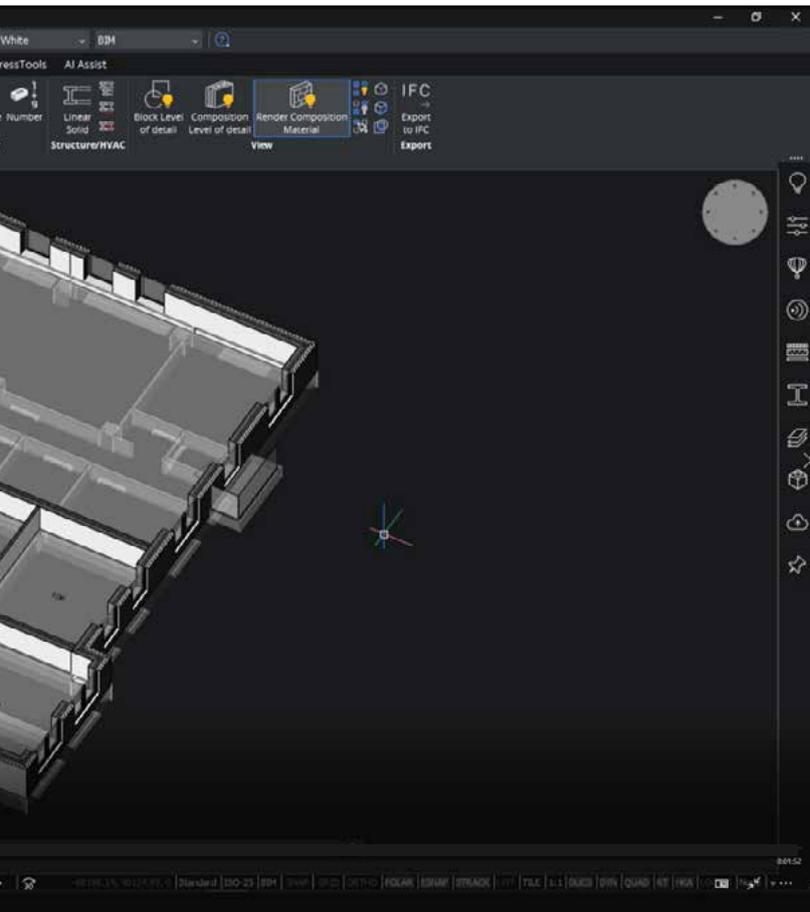

Flexibility to use 2D and 3D workflows

BricsCAD BIM users can work flexibly in either 2D drafting or 3D modeling, selecting the most efficient workflow for small projects to reduce cost and maintain margins.

Scan to BIM

BIM offers outstanding performance for processing and viewing point-clouds natively in the software. Advanced, AI-driven tools allow accurate and efficient modeling for buildings from scans and delivers shareable outputs in an IFC format.

BIM

Collaborate freely

BricsCAD BIM supports global, open standards to ensure smooth collaboration with everyone on the extended design and build team. Bricsys 24/7, our cloud-based Common Data Environment (CDE), can be added to this interoperability, as the hub for model sharing and project communications.

- **IFC** • Import and export IFC 4.0 and BCF files
- **.rvt** • Import RVT and RFA files
- • Import directly from Trimble ® SketchUp

AI-Powered BIM tools

BricsCAD BIM's AI-powered tools such as BIMIFY quickly convert concepts into fully classified BIM models. Features like AUTOMATCH, and PROPAGATE allow users to easily detail even large and complex projects.

Project Browser

Manage project data and drawings with the Project Browser. Store drawings, images, spreadsheets or algorithms that streamline workflows, all in one place.
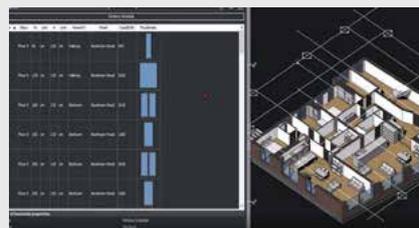
Third-party apps

Extend BricsCAD BIM's functionality with third-party apps from trusted partners, allowing users to visualise projects, add MEP, structural engineering and generative design capability.
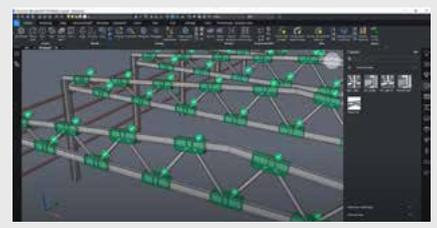

Building design and shop drawings

Create clear and accurate design and construction documentation in reduced times, using the automatic generation of sections, elevations, drawing views and sheet layouts.

Model-based quantity take off

Contractors can quickly model buildings from 2D plans, or use 3D IFC files received from designers, to generate lists and calculate material quantities for a project.

AI-driven model detailing

AI-driven features help engineers propagate complex 3D structural details across the entire model, improving accuracy and speed during the detailing process.

BricsCAD® Mechanical

Mechanical design and drafting combined with intelligent 2D, 3D and Modeling

For design, engineering and manufacturing professionals to accelerate design-to-fabrication with precision

BricsCAD Mechanical provides advanced manufacturing design tools, built on the BricsCAD Pro 2D and 3D's native DWG platform. For manufacturers delivering accurate, 2D-detailed mechanical drawings to production teams and suppliers, Mechanical offers the fastest, easiest and most cost-effective solution.
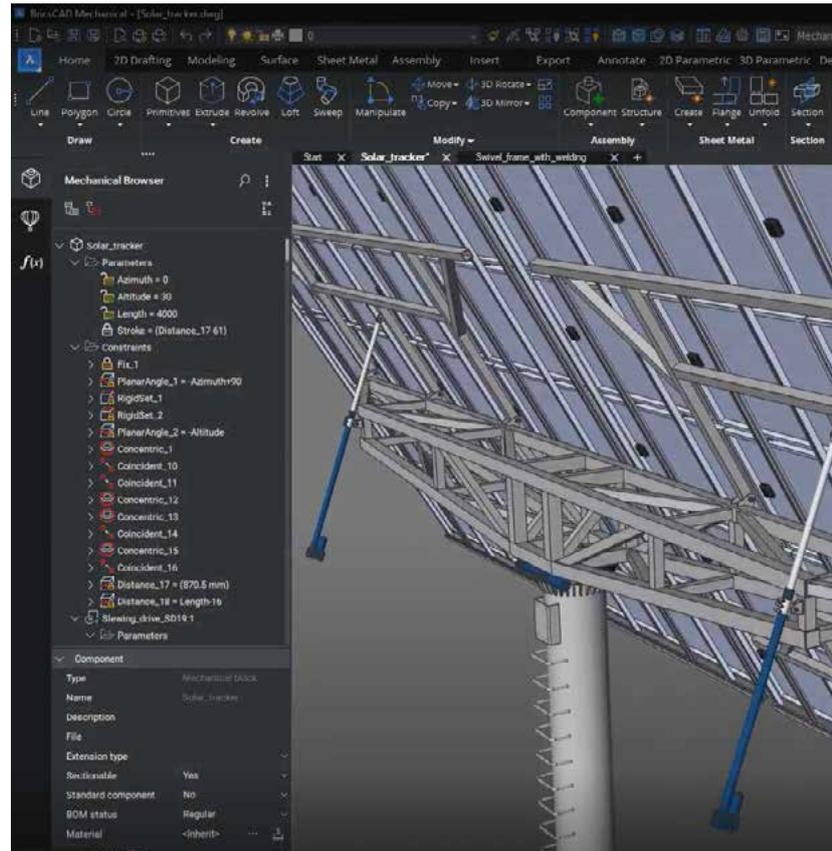
BricsCAD provides a unique approach to 3D and 2D mechanical design and offers the perfect design solution for many manufacturers. Mechanical offers combined direct and parametric modeling, AI-powered intelligent productivity tools, comprehensive 2D-annotation capability, and highly efficient sheet-metal design workflows.
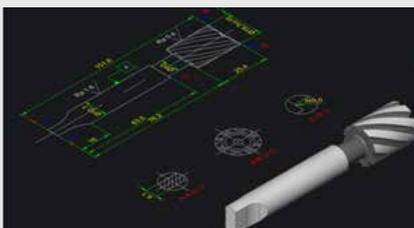
Making mechanical design accessible

In the past, users in manufacturing had a choice of low-end, fundamental 2D and 3D design tools or higher-end advanced mechanical design solutions. The low-end products fall short of the required capability and the high-end solutions are often overly complex and expensive.

BricsCAD Mechanical is fundamentally different. Our solution solves the dynamic of cost verses capability by giving users the balance of high functionality and considerably better value.

BricsCAD Mechanical is also much easier to adopt than traditional solutions for mechanical design. As an extension of BricsCAD Pro, Mechanical has the native DWG format, a familiar look and feel, and non-history-based approach. This offers best-in-class mechanical design tools for manufacturers of all sizes and sectors.
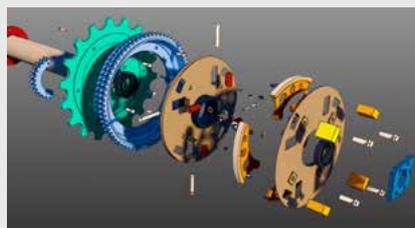
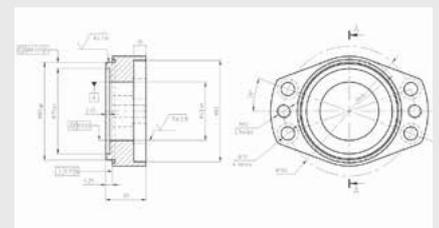## With BricsCAD® Mechanical you can…

Design component parts

Quickly design and modify 3D components using our flexible direct and parametric modeling approach. And easily create 2D parts via BricsCAD's AI-powered geometry creation features.

Build and assess product assemblies

Create fully-constrained assemblies using your components and a vast library of standard components, assess the validity of the assembly, and automatically generate precise bills of materials for downstream workflows.

Create 2D production drawings

Rapidly deliver the accurate, fully-detailed drawings your production teams and suppliers need, through fast 2D view creation and via BricsCAD's comprehensive annotation and powerful dimensioning tools.

AI-powered part and assembly design

Create components and complex hierarchies of sub-assemblies with the assistance of unique intelligent AI tools to help complete design work faster.

Unique flexible approach to 3D component design

BricsCAD's unique variational 3D modeling approach offers the freedom to design parts how user want to, from concept to detail, with whatever combination of direct modeling and parametric control required.
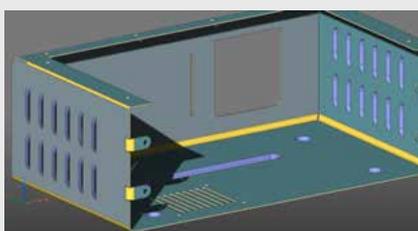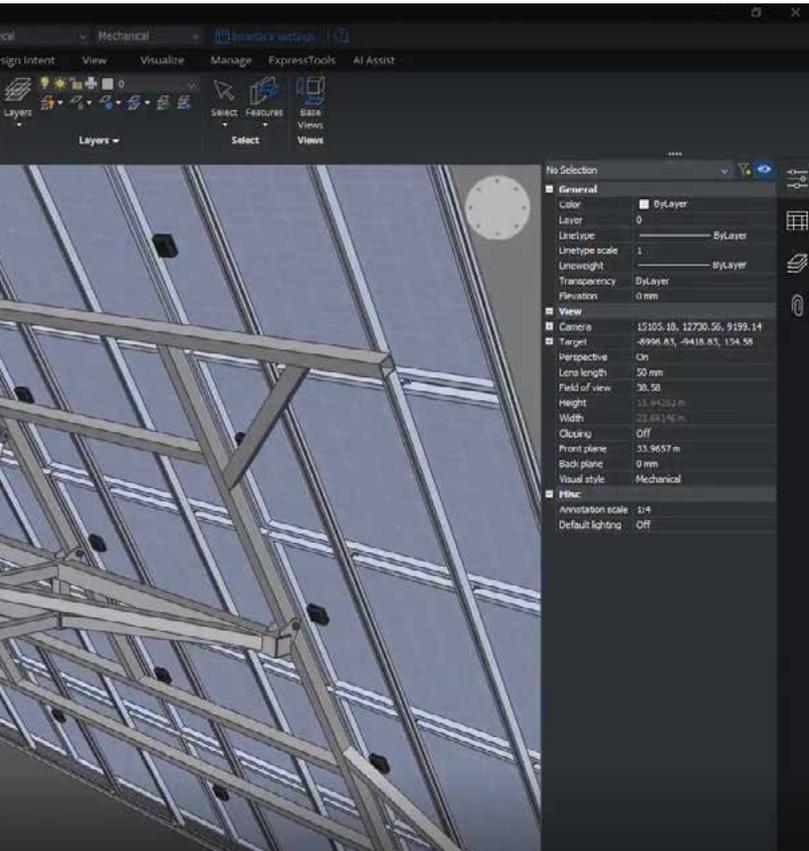
Best alternative DWG solution for 2D mechanical design and drafting

With native DWG compatibility and a comprehensive set of adaptable 2D mechanical detailing tools, BricsCAD is the ideal solution for 2D design and drafting.
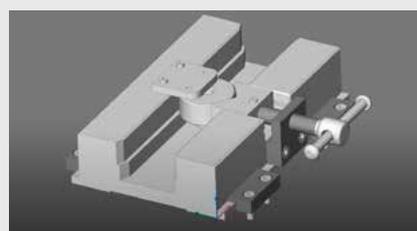
Single comprehensive design platform

BricsCAD Mechanical offers a single, familiar environment for all capabilities. This include 2D drafting, 3D design, assembly build, sheet-metal design and BOM development, providing the right tools across the design-to-manufacture process.
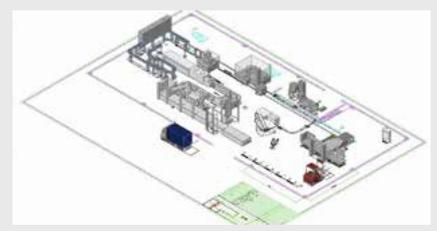
Deliver sheet-metal parts for production

Benefit from BricsCAD's powerful, industry-leading sheet-metal design tools, and use our unique two-step workflow, going from solid to sheet-metal to unfolded pattern for preparing parts ready to manufacture.

Create tooling and fixture designs

Quickly build precise tooling, jigs and fixtures around components and assemblies in 2D, 3D or a combination of both. Our Communicator import technology makes it simple to incorporate standard parts rapidly into your assembly.

Lay out and retool production facilities

Easily lay out or update your production facilities in both 2D and 3D. Use BricsCAD's intelligent tools to quickly update manufacturing plant using 2D floorplans or 3D BIM models, to ensure optimized operations without unnecessary complexity.

Powerful and seamless workflows, from BIM to Mechanical design on an all-in-one CAD platform

For businesses and professionals who design construction systems and products in a building context

Ultimate

BricsCAD Ultimate is our all-in-one solution for designers, engineers, manufacturers and contractors. Ultimate brings our Mechanical and BIM software together into one bundle, so organizations with multi-disciplinary teams can work seamlessly together from a continuously developing workflow.

With BricsCAD® Ultimate you can...

Have complete flexibility

BricsCAD Ultimate enables users to complete all of the workflows available in BricsCAD Pro, BIM or Mechanical. This reduces the cost and licensing commitment for running multiple software products.

BIM-to-Fabrication

Professionals who design building systems or building products can confidently open a project file from their client and design mechanical elements in the context of the building, increasing speed and fidelity.

Increase level of detail

With a unique software for building design and manufacturing, projects can benefit from an increased level of detail. This provides Ultimate users with the capability to transform a BIM model into fabrication plans and drafts.

Which BricsCAD® is right for you?

Capabilities across the BricsCAD® Editions

	BricsCAD Lite	BricsCAD Pro	BricsCAD Mechanical	BricsCAD BIM	BricsCAD Ultimate
Tools for CAD Managers	✓	✓	✓	✓	✓
Re-use your AutoCAD Customizations	✓	✓	✓	✓	✓
100% Real DWG	✓	✓	✓	✓	✓
Powerful, Compatible Lisp API	✓	✓	✓	✓	✓
2D Constraint Manager	✓	✓	✓	✓	✓
3D Direct Modeling		✓	✓	✓	✓
Rendering, Lights & Materials		✓	✓	✓	✓
Third-party Application API		✓	✓	✓	✓
3D Constraint Manager		✓	✓	✓	✓
3D Automatic Parametrization		✓	✓	✓	✓
Deformable Modeling Engine		✓	✓	✓	✓
TIN Surfaces, Gradings & Alignments		✓	✓	✓	✓
Intelligent Filtering		✓	✓	✓	✓
Civil and Survey tool		✓	✓	✓	✓
BricsCAD Mechanical Features			✓		✓
Parametric Assembly Modeling			✓		✓
Automatic Bills of Materials Generation			✓	✓	✓
Automatic Exploded View Creation			✓		✓
Robust Sheet Metal Design Workflow			✓		✓
Custom Properties			✓		✓
Smarter Piping Design			✓		✓
Project Browser				✓	✓
The BricsCAD BIM Workflow				✓	✓
BIM-Ready Concept Modeler				✓	✓
QUICKDRAW and AUTOMATCH Tools				✓	✓
Automatic BIM Element Classification				✓	✓
PROPAGATE Workflow				✓	✓
Associative Construction Documentation				✓	✓

For a detailed comparison, please visit our website:
www.bricsys.com/bricscad-pro/compare

AEC's cloud-platform designed for multi-discipline workflows

Simple, powerful CDE to collaborate across project lifecycles with the right data, at the right time

Bricsys 24/7 empowers project and field engineers to collaborate on projects with confidence, in the office, in the trailer, or on-site, with the right data at the right time. This allows all stakeholders in a project's value chain to respond to issues quickly and reduce errors significantly, with all teams working from up-to-date documents, drawings and models.
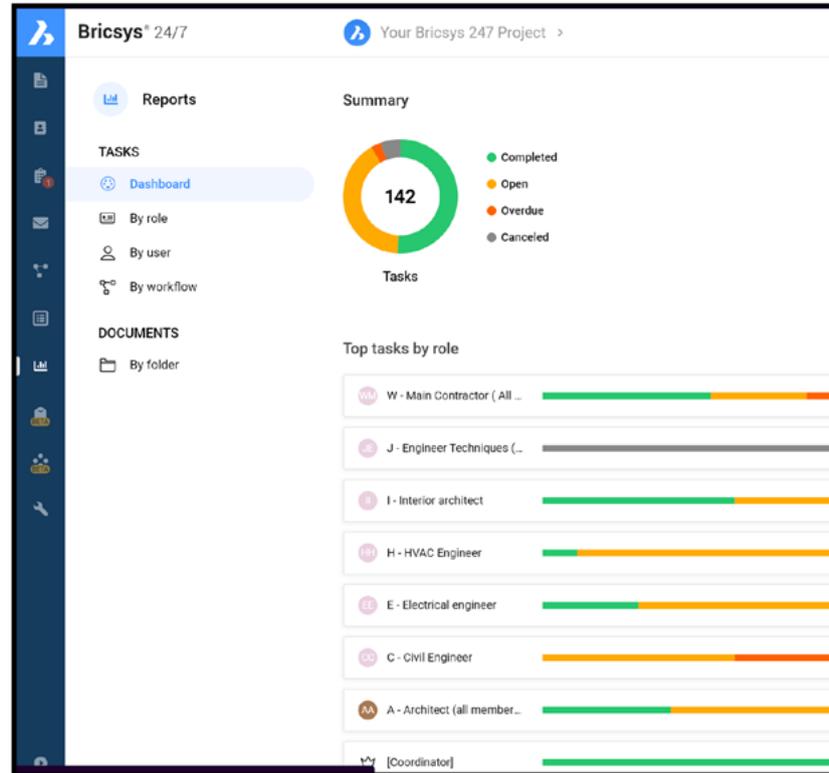
24/7's cloud-connectivity also allows project managers in construction to collaborate more effectively by bringing together the knowledge of teams outside of their functional silos.

With Bricsys 24/7, all activities and information have complete visibility throughout a construction project's lifecycle, connecting the office and field with real-time access to data and information. This keeps projects on track, with enhanced communication and efficient delivery, to realize profitability and reduce project risk.

Simple, powerful construction collaboration

Bricsys 24/7 is a cloud-based common data environment (CDE) for document management and workflow automation. Bricsys 24/7 offers role-based security and unlimited users to ensure business can scale up documentation flow to meet the demands of different projects and lifecycles. Our flexible platform enables project workflows of all shapes and sizes, from simple data management and document control to more robust automated project-management workflows.

For integrated projects, Bricsys 24/7 can act as a common data environment for all project workflows, contract documents and drawings (via integration with BricsCAD products). This delivers transparency for all stakeholders, from design to building handover.
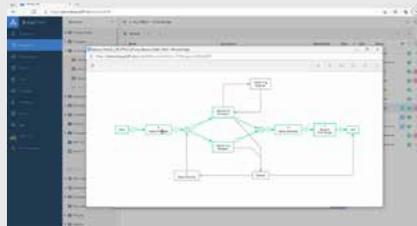

With Bricsys® 24/7 you manage…

Document control and collaboration

Construction professionals have access to the latest information in real-time, improving communication and increasing visibility of project documentation.
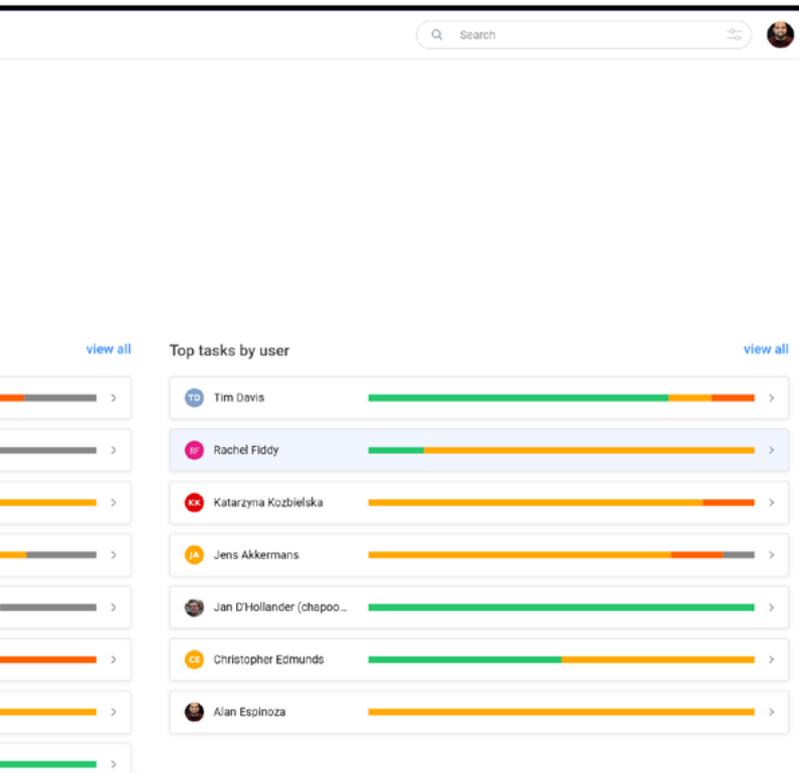

Shop drawing approvals

Deliver shop drawings correctly the first time with automated workflow approvals and structured metadata capture.

Construction layout cloud collaboration

Quickly share design data to Leica iCON Field for site layout workflows.

View project files easily

The viewer supports 70+ document formats. Users don't need to have the native software installed on their computer. Thanks to 24/7's unique streaming viewer technology, you can view large CAD files and BIM models in seconds.

Create workflows

Workflow automation is simple in 24/7 with the graphical workflow editor. Adding documents to a workflow folder automatically enters them into the workflow. There is no easier way to ensure compliance in project management.

Version history and change management

Ensure that all users have access to the latest version of every document. Bricsys 24/7 keeps track of all file versions, and logs all changes, uploads and downloads.

Unlimited project users

Add unlimited users to your projects. Every project member can access the Bricsys 24/7 file store, with access rights based on the users' roles within the project.

Bidding documents

Save time and improve accuracy with electronic documents for different trades to submit bids.

RFIs / technical questions

RFIs / technical questions: revision control with better communication.
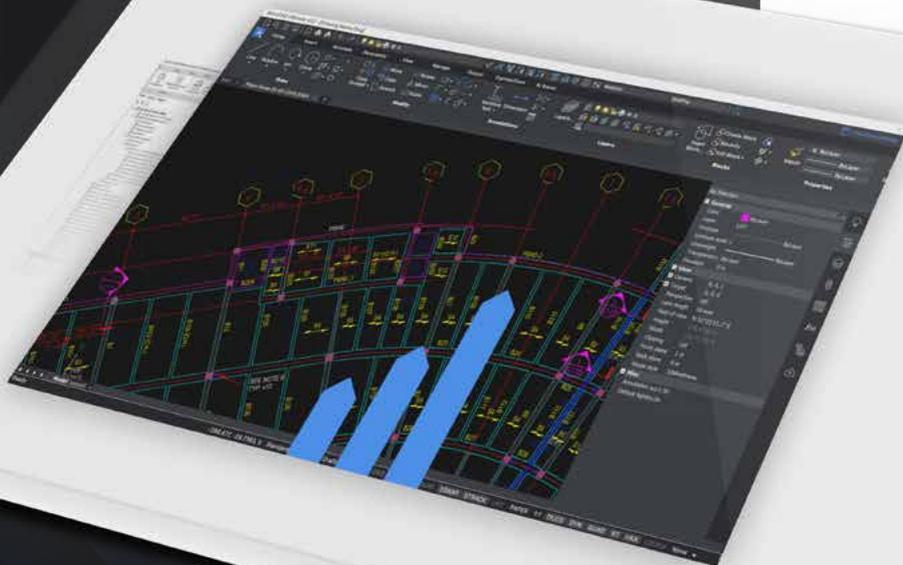
Handover / close-out

Smooth and controlled building handover, with all data and documentation in one place. This delivers project data and information which is consistent, progressive and reliable every time.

Upgrade

to BricsCAD® V23

Explore

Bricsys® 24/7

RAP Technologies
The CAD Company

RAP Technologies Pvt. Ltd.

#5,6, G Cross, 12th Street, Krishna Nagar, Pondicherry – 605 008.

M: +91-9444167875 / 9790246888 P: +91-413-2235000 | E: sales@raptechnologies.com