



ENABLING BIM FOR

Building Product Manufacturers

Connect your design, engineering, manufacturing and sales processes to the building ecosystem and the key stakeholders who have the power to specify your products.



Digital product data as a business enabler

With the increasing prevalence of BIM both in the UK and globally, building product manufacturers are under pressure to provide digital product information and objects. If your organisation hasn't been asked this already, it's likely it will in the near future.

More and more clients want to choose the right products to optimise their facility — reducing maintenance

overhead and running costs over the life of the building. Providing your product data is critical for architects and building engineers to simulate and improve buildings performance.

In addition, providing digital product information can make your products easier to specify and design into projects, increasing sales and enhancing your brand.

The Future of Making Things

Many of our clients understand that BIM is just one element of a wider change that Autodesk calls the Future of Making Things. Disruptions in the means of production, increasing demands for personalisation and customisation, and ever more connected products are challenging the traditional means of gaining, and sustaining, competitive advantage. Organisations that want to thrive are working with Autodesk to understand these disruptions, and turn them into opportunities to increase value and develop new revenue streams.

ENABLING BIM THROUGH THE Autodesk Product Innovation Platform

The Autodesk Product Innovation Platform gives you the agility to quickly adapt to changes in the way things are made, procured, and used. Streamline sales, engineering, and manufacturing by connecting your clients with your systems and processes. Look beyond the sale of your product to open up new opportunities and revenue streams. Servitization and connected systems can drive long-term value and brand loyalty. These opportunities rely on your ability to provide, capture, and analyse data associated with your products.

There are some simple ways to provide this data, and in many cases this can be done in-house and at little additional expense. Before out-tasking your BIM content to a third party, please review the attached options for using Autodesk Inventor to create, simplify and convert your content into the formats used in the majority of BIM projects.

PRODUCT
INNOVATION
PLATFORM

TRADITIONAL
PRODUCT
LIFECYCLE

PERSONALIZE

COLLABORATIVE

FLEXIBLE

EXPERIENCE

CONNECTED
SERVICES

CONCEPT

DESIGN

PRODUCE

SELL

OPERATE
& RETIRE

THE AUTODESK SOLUTION FOR

Building Product Manufacturers

Autodesk Inventor® software offers professional-grade tools for 3D mechanical design, simulation, documentation, and production.

**Sales and Marketing**

Deliver 3D BIM-ready content that helps clients see how designs work in the architectural context. Protect intellectual property by publishing simplified 3D representations of product models for use in Revit building design software.



Offer web and mobile access to 3D configuration of your products for a greater customer experience.

Product Engineering

Digitally test the form, fit, and function of designs to make better decisions earlier in the process. Automate the process of 3D modeling and documentation based on rules for configuring new products.

Optimize products for performance and material cost, resulting in fewer physical prototypes.

**Data management**

Gain more control over design data, quickly find and reuse data and reduce potential overhead costs and project delays caused by errors and lost data.

Production and Manufacturing

Enhance communication with your manufacturing teams and avoid costly assembly errors with 3D assembly instructions directly from your CAD data.

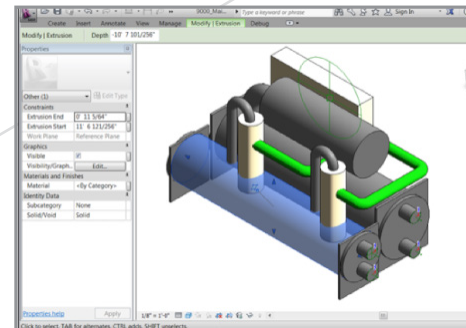
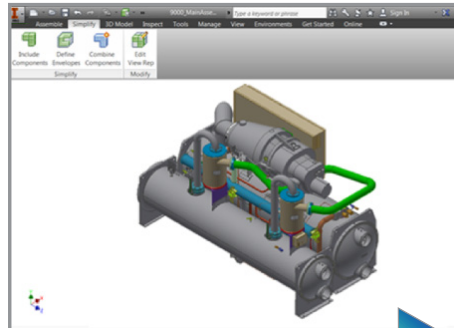
Installation, Commissioning and Maintenance

Coordinate with other trades and inform them of coordination and collaboration issues that need to be addressed during the project delivery cycle.

Provide mobile access to interactive installation instructions for field technicians and customers.

Share On Demand Product Catalog Parts and Components

Provide AEC professionals with BIM-compliant product models directly from Autodesk Inventor.



Reuse and Design

Autodesk Inventor lets you import product models from most widely used CAD tools. Create, detail and document manufacturing level of detail in Autodesk Inventor.

Simplify and Author

- Extract/add product meta data
- Call out mechanical, electrical, and plumbing connections
- Remove unnecessary level of detail
- Publish model to AEC formats

Export to BIM Formats

Enable architects and engineers to read and use your product models within Revit and other AEC software.

Key benefits of this workflow

- ▶ Remove 3rd Party reliance
- ▶ Own your changes
- ▶ Control your IP and meta data
- ▶ Create and host your own BIM content and maintain brand value
- ▶ Maintain associativity with you CAD files
- ▶ Your customers are already our customers
- ▶ Maximize sales opportunity - create Revit objects for early use and specification
- ▶ Engage with your clients to deliver greater value and long-term business

GET STARTED ON THE

Autodesk® Product Innovation Platform

Please contact Autodesk or your local Autodesk partner to discuss your requirements, and to explore ways in which your company can take advantage of the opportunity presented by the Future of Making Things.

- ▶ Visit us at www.autodesk.com
- ▶ Learn more about the Future of Making Things: www.autodesk.co.uk/whatsnextinmanufacturing
- ▶ Or email an Autodesk representative.

Considerations when providing product data to AEC professionals

- ▶ What level of detail are your customers expecting?
- ▶ Fully detailed vs Simplified model data?
- ▶ What properties need to be included?
- ▶ How will your information be used downstream??
- ▶ Is COBie a factor?

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