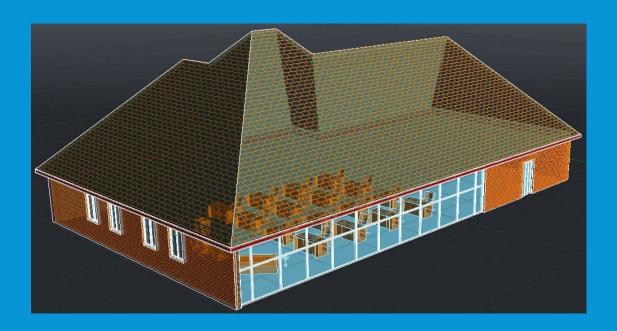


The Architecture toolset (previously referred to as AutoCAD Architecture) is now included with AutoCAD as a specialized toolset. It is built specifically to create and modify software-based design and documentation productivity for architects.

Purpose-built architectural design tools help eliminate errors and provide accurate information to the user, allowing more time for architectural design. This study details the productivity gains that users may experience when using AutoCAD with the Architecture toolset rather than just basic AutoCAD when designing and documenting a building.





PRODUCTIVITY STUDY HIGHLIGHTS

Benefits of the Architecture Toolset





STUDY SUMMARY

Autodesk commissioned a study that compared basic AutoCAD to the Architecture toolset when performing nine tasks commonly used by architects.

Results showed that the Architecture toolset provided over **61% overall productivity gain*** compared with basic AutoCAD, when these tasks were performed by an experienced AutoCAD user.

61% Overall Productivity Gain*

1000 HOURS

390 HOURS

Architecture Toolset

Basic AutoCAD

HOW THE ARCHITECTURE TOOLSET SAVES TIME:

1. Floor plans

(Time savings with the Architecture toolset up to 53%)

Provides a huge library of thousands of predefined building objects that eliminate the need to manually develop symbols and styles such as wall styles, windows, doors, etc.

2. Elevations

(Time savings with the Architecture toolset up to 79%)

Uses the 3D model to generate elevations without the need to project lines from the floor plan, saving tedious 2D editing time required in basic AutoCAD.

3. Reflected ceiling plans

(Time savings with the Architecture toolset up to 25%)

Creates rooms and spaces from the 3D model, automatically creating outlines for rooms that also allow for the automatic creation of ceiling grids.

4. Building sections

(Time savings with the Architecture toolset up to 65%)

Uses the 3D model to generate building sections in the same way that elevations are quickly created, without the need to project lines from the floor plan.

5. Sheet layouts

(Time savings with the Architecture toolset up to 71%)

Uses the 3D model so no extra drafting is required to create

sheet views. The Architecture toolset contains additional sheet set tools that improve productivity and save time on sheet set creation.

6. Details

(Time savings with the Architecture toolset up to 70%)

Provides substantial time saving through its use of the 3D model and pre-designed multi-level blocks in the content library.

Schedules

(Time savings with the Architecture toolset up to 65%)
Necessary scheduling information is already in pre-drawn

content library blocks. Schedules are easily created and refreshed after attribute information changes.

8. Project modifications

(Time savings with the Architecture toolset up to 47%)

Intelligent objects maintain their relationships, and design changes can be implemented quickly and easily with updates also reflected in elevations, sections, and details.

9. Coordination and publishing

(Time savings with the Architecture toolset up to 36%)

Contains additional built-in publishing tools that speed up the DWF publishing process. The DWFs published also contain all the necessary callouts required to link to the elevations, sections, and details in the project.

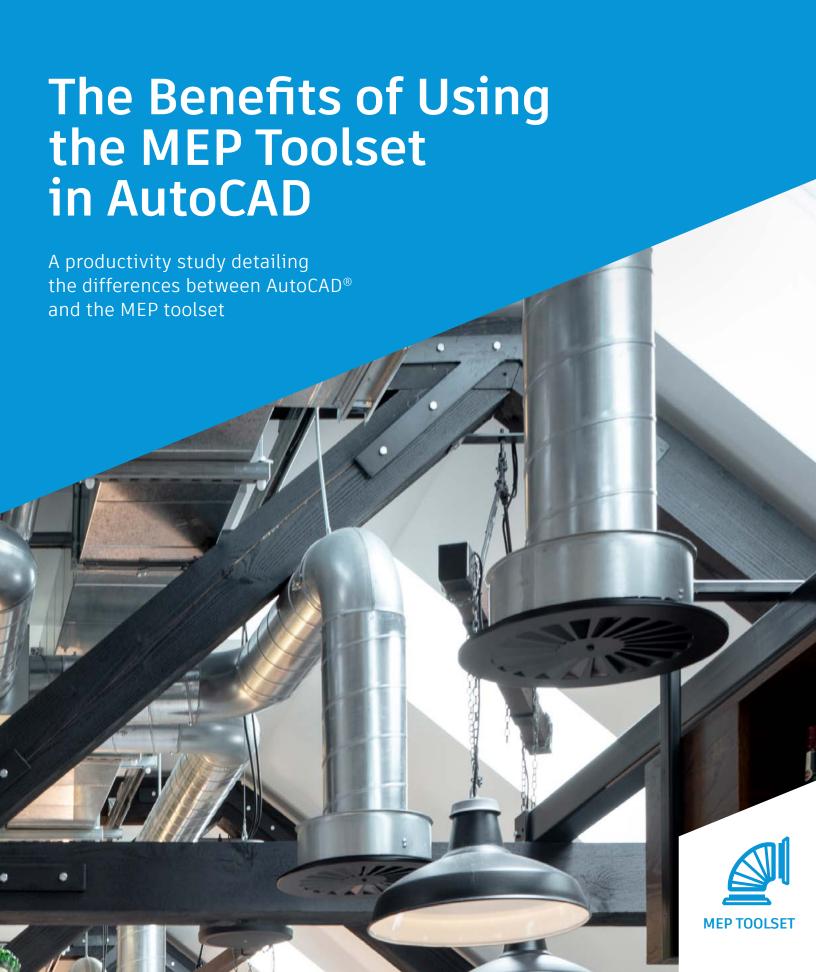


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PRODUCTIVITY STUDY HIGHLIGHTS

Benefits of the MEP Toolset

The MEP toolset brings dramatically increased productivity and significant time savings to common AutoCAD® MEP design tasks



STUDY SUMMARY

Autodesk commissioned a study that compared basic AutoCAD to the MEP toolset when performing tasks commonly done by mechanical, electrical, and plumbing professionals in the building industry.

Results showed that the MEP toolset provided up to 85% overall productivity gain* compared with basic AutoCAD, when these tasks were performed by an experienced AutoCAD user.

85% Overall Productivity Gain*

100 HOURS

15 HOURS

Rasic AutoCAD

MEP Toolset

HOW THE MEP TOOLSET SAVES TIME:

1. Project setup

(Time savings with the MEP toolset up to 81%)

The MEP toolset provides a huge library of MEP components, including MvParts, which allow for more productivity when setting up MEP designs in 3D.

2. MEP - Electrical

(Time savings with the MEP toolset up to 86%)

Electrical workspace and Electrical design configurations allow for the full wiring circuit to be created for scheduling later, if required.

MEP - HVAC

(Time savings with the MEP toolset up to **81%**)

Working in 3D, the placement of ducting between items of equipment becomes much more manageable and less time-consuming. Extensive content library of HVAC MvParts is available.

4. MEP - Piping

(Time savings with the MEP toolset up to 91%)

Piping plan can easily be set up using the MEP templates and the MEP Display Manager.

5. MEP - Plumbing

(Time savings with the MEP toolset up to 90%)

MvParts provide an extensive library of plumbing fixtures and drainage items. Routing plumbing lines is guick and easy due to easy connection via the MvParts.

6. Detailing and sheets

(Time savings with the MEP toolset up to 84%)

Provides extensive display configurations in specific sheet viewports which would otherwise need to be configured manually.

*As with all performance tests, results may vary based on machine, operating system, filters, and even source material. While every effort has been made to make the tests as fair and objective as possible, your results may differ. Product information and specifications are subject to change without notice. Autodesk provides this information "as is", without warranty of any kind, either express or implied.

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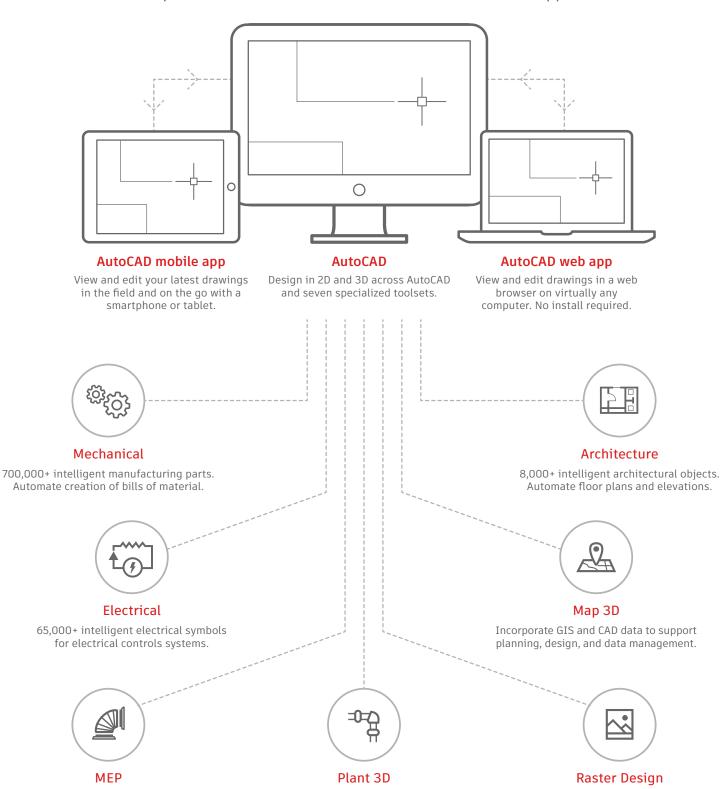
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