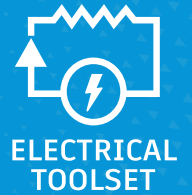


PRODUCTIVITY STUDY HIGHLIGHTS

Benefits of the Electrical Toolset

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

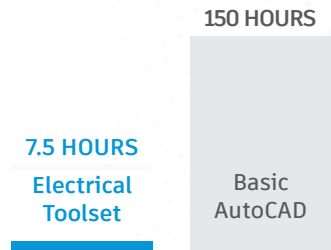


STUDY SUMMARY

Autodesk commissioned a study that compared basic AutoCAD to the Electrical toolset when performing tasks commonly used by electrical engineers.

Results showed that the Electrical toolset provided up to **95% overall productivity gain*** compared with basic AutoCAD, when these tasks were performed by an experienced AutoCAD user.

95% Overall Productivity Gain*



HOW THE ELECTRICAL TOOLSET SAVES TIME:

- 1. Comprehensive symbol libraries**
(Time savings with the Electrical toolset up to 85%)
 Simple icon-menu-driven system includes over 2,000 standards-based schematic symbols. Smart schematic symbols align with the wires in the schematic drawing and renumber where applicable.
- 2. Automatic wire numbering and component tagging**
(Time savings with the Electrical toolset up to 82%)
 Places sequential or reference-based numbers on wires and components based on the chosen configuration. Unique component tags/IDs are automatically generated.
- 3. Real-time error checking**
(Time savings with the Electrical toolset up to 83%)
 Helps avoid costly errors during the design process. Requested changes are compared with the current project.
- 4. Real-time coil and contact cross-referencing**
(Time savings with the Electrical toolset up to 77%)
 Sets up parent/child relations between electrical component symbols, even for different project drawings.
- 5. Electrical-specific drafting features**
(Time savings with the Electrical toolset up to 63%)
 Many commands specifically designed for electrical schematic drawings are provided, greatly increasing efficiency.
- 6. Automatically create PLC I/O drawings from spreadsheets**
(Time savings with the Electrical toolset up to 99%)
 Create PLC I/O drawings quickly from spreadsheets using the PLC I/O utility.
- 7. Create smart panel layout drawings**
(Time savings with the Electrical toolset up to 61%)
 Create physical footprint representations of panel layouts in project drawings linked to schematic component symbols.
- 8. Automatic project reports**
(Time savings with the Electrical toolset up to 97%)
 Automatically generate comprehensive project reports including components, wires, Bill of Materials, etc.
- 9. Share and track drawing changes**
(Time savings with the Electrical toolset up to 86%)
 Share project drawings with basic AutoCAD and AutoCAD LT. Changes made outside of the Electrical toolset are easily tracked and reported.
- 10. Reuse existing drawings**
(Time savings with the Electrical toolset up to 81%)
 Import external drawings using the Update/Retag tool. Reduce time spent renaming DWG project files.

*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.

Autodesk, the Autodesk logo, AutoCAD, and the AutoCAD logo are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document. © 2020 Autodesk, Inc. All rights reserved.



AutoCAD includes access to all AutoCAD vertical industry functionality as specialized toolsets. Take your work with you with the AutoCAD mobile app and the AutoCAD web app.