AUTODESK® AUTOCAD® 2019

Benefits of the Electrical Toolset

The Electrical toolset brings dramatic timesaving and boosted productivity to common AutoCAD electrical design tasks.
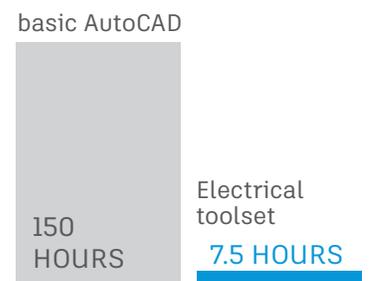
AutoCAD 2019 includes access to all AutoCAD vertical industry functionality as specialized toolsets. Take your work with you with the AutoCAD mobile app and the new AutoCAD web app.

STUDY SUMMARY

Autodesk recently commissioned a study comparing basic AutoCAD to the Electrical toolset (previously known as AutoCAD Electrical) for performing 10 common electrical design tasks.

Results showed that the Electrical toolset provided a dramatic **95% overall productivity gain*** compared with basic AutoCAD when these tasks were performed by an expert level AutoCAD user.

95% overall productivity gain*

basic AutoCAD

150 HOURS

Electrical toolset

7.5 HOURS

Time to complete sample project

Ways the Electrical toolset saves time:

1. Comprehensive Symbol Libraries
(time savings = 85%)

Simple icon-driven menu system includes over 2,000 standards-based "smart" schematic symbols for inserting devices.

2. Automatic Wire Numbering & Component Tagging *(time savings = 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 = 83%)*

Helps avoid errors during the design process. Requested changes are compared with the current project.

4. Real-Time Coil & Contact Cross Referencing
(time savings = 78%)

Sets up parent/child relations between electrical component symbols, even for different project drawings.

5. Electrical-Specific Drafting Features
(time savings = 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 = 99%)*

Create PLC I/O drawings quickly from spreadsheets using the PLC I/O utility.

7. Create Smart Panel Layout Drawings
(time savings = 61%)

Create physical "footprint" representations of panel layouts in project drawings linked to schematic component symbols.

8. Automatic Project Reports *(time savings = 97%)*

Automatically generate comprehensive project reports including components, wires, bills of material, etc.

9. Share & Track Drawing Changes
(time savings = 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 = 81%)*

Import external drawings using the Update/Retag tool. Reduce time spent renaming DWG project files.