



CADWorx® Electrical & Instrumentation Design Suite

The world's richest set of tools for electrical and instrumentation design

Capabilities:

- Intelligent 2D/3D electrical design
- Efficient library management
- Catalog-based components
- Detailed bill of materials
- Equipment Library Administration
- Cable Trays/Conduits/Trench/Duct
- Collision checking
- Automatic deliverable generation
- SQL Server or MS-Access
- Intelligent wiring diagrams
- Model/Diagram synchronization
- Connection to P&ID Database
- PLC Card builder
- Relay Contact/Coil cross referencing
- Cable Schedule with Length
- Realistic Cable Route Preview
- Live fill percentages in SQL DB.
- Two-way data link with Excel
- Center of Gravity reports

CADWorx® Electrical & Instrumentation Design Suite (EIDS) is electrical and instrumentation design software with functionality to meet all your needs, powered by SCADA Systems Ltd. CADWorx EIDS contains many tools suited to the diverse range of design sub-disciplines present within the electrical industry and these tools fully encompass the needs of each sub-discipline.

The main modules that are included in the CADWorx Electrical bundle:

- CADWorx Electrical
- CADWorx Instrumentation
- CADWorx Raceway

Schematics and Wiring Diagrams

CADWorx Electrical is an extremely powerful solution to create intelligent schematics and wiring diagrams. With CADWorx Electrical, CADWorx Raceway models can be linked for change management control, synchronizing your 3D models with your schematics and wiring diagrams; thereby improving accuracy and efficiency.

Automatic Cable Routing

The auto-routing capabilities of CADWorx Raceway allows designers to create 3D raceway models quickly, accurately, and intuitively. The software allows the designer to focus on design tasks by generating 3D models automatically.

Instrument Design and Documentation

CADWorx Instrumentation uses a familiar drag and drop method to link components and electrical connections with many tools to copy, paste, search, replace and more.

Automatic Drawing Generation

Produce graphically similar “cloned” diagrams automatically from one or more master drawing prototypes using Protogen. A relational structure allows the production of composite drawings from multiple templates. It is included with CADWorx Electrical.

Cable Scheduler

Cable Scheduler is a SQL database tool for managing your plant or project cabling. It manages creation, integration with upstream circuits, termination, routing and materials.

Cables can be directly added to the project database via Cable Scheduler, without CAD operations. Optionally, you can create primary cabling diagrams (Single Line and Cable Block diagrams) and Cable Scheduler will absorb these primary cabling diagrams and provide the means to manage all interconnection, routing and assignment for all of your project’s cables.

Project Database Management

Manipulate and collate circuit diagram data using the database tool Ebase supplied with CADWorx Electrical. It can be used by both designers and engineers.

Technical Specifications:

- AutoCAD®-compatible
- BricsCAD®-compatible (Recommended)

CADWorx Electrical & Instrumentation Design Suite is developed through a partnership with SCADA Systems Ltd. and is based on the Elecdes Design Suite, which is now in its fourth decade of development and comprises a user base spanning the Americas, Europe, Middle East and APAC.

About Hexagon

Hexagon is the global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

[Hexagon’s Asset Lifecycle Intelligence division](#) helps clients design, construct, and operate more profitable, safe, and sustainable industrial facilities. We empower customers to unlock data, accelerate industrial project modernization and digital maturity, increase productivity, and move the sustainability needle.

Our technologies help produce actionable insights that enable better decision-making and intelligence across the asset lifecycle of industrial projects, leading to improvements in safety, quality, efficiency, and productivity, which contribute to Economic and Environmental Sustainability.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 24,000 employees in 50 countries and net sales of approximately 5.5bn USD. Learn more at [hexagon.com](https://www.hexagon.com) and follow us [@HexagonAB](https://twitter.com/HexagonAB).