



Product overview

Trouble-shoot aircraft electrical wiring and wire harness manufacturing drawings with AeroWire™. This state-of-the-art software validates diagrams through virtual testing and automatically identifies problems such as unconnected or misconnected pins, wires, connectors and other components. AeroWire™ eliminates expensive assembly phase re-work by identifying anomalies — even those spanning multiple drawings — early in the design phase.

AeroWire™ generates work instructions from approved drawings as well as cut-out lists and BoMs.

This software begins paying for itself instantly: one AeroWire™ installation can process eighty wire harness drawings in two hours. A pair of engineers requires ten days to accomplish the same task by hand.

Product Highlights

- Complete wire-harness manufacturing solution generates work orders, cut lists and BoMs
- Translates your existing electrical drawings into a centralized database
- Automatic regeneration of any section of the electrical harness from the database
- Advanced search for avionics systems, harness components and connectivity of any aircraft
- Identify anomalies early in the design phase to prevent costly errors and delays later in manufacturing and final assembly phases

Main Features and Benefits

Add circuit intelligence to CAD electrical diagrams – Existing CAD wire-harness drawings are automatically augmented with circuit intelligence then imported to a central wire-harness database. The centralized database avoids duplication and consistency problems of traditional systems. From here, reports are generated according to user search criteria, including work-instructions, schematic representations of wire-bundles, connectors and any other technical information.

Reduce errors and time needed to validate harness drawings – AeroWire™ automatically identifies problems with aviation electrical diagrams such as unconnected or misconnected pins, wires, connectors, fuses, mismatching of gauges wire-bundles, etc. AeroWire™ also recognizes electrical network connectivity spanning multiple drawings. Malformed drawing elements are identified for correction each time drawings are updated.

AeroWire™

Aviation wire harness validation tool

Features

Legacy data – AeroWire™ works with your existing circuit diagrams.

Searchable meta-data – Added to each drawing.

Database – All registered drawing elements validated against a central database. All major database types supported – Oracle, Sybase, MySQL, SQL Server and Access. Hardware configurations required depend on network configurations.

Identifies all blocks – The database is populated using the block data. Any element with a block ID is recorded.

Automatic Issue identifications – Missing and mismatched connections are identified.

Multiple aircraft – The database can hold information for multiple aircraft.

Complex dependencies – This software processes drawings pertaining to multiple aircraft.

Pinpoint drawing errors – Pinpoint drawing anomalies for analysis and correction with the click of a mouse.

Multi-drawing circuits processed – The AeroWire™ database recognizes electrical network connectivity and automatically identifies issues spanning multiple drawings or electrical systems each time drawings are imported or updated.

Error-free manufacturing – AeroWire™ creates work instructions and cut lists for approved drawings from the centralized database.

Flexible output – Each set of an aircraft's circuit database can be archived to a CD or DVD-ROM for off-site consultation.

Tailor made – Mecanica Solutions will customize AeroWire™ to match your specific engineering and business needs.

Easy deployment – Multi-user, network based operations or stand alone installation.

Training – Users familiar with CAD require only one day of on-site training to use AeroWIRE™ expertly.

Licensing – Per seat and site licenses can be purchased, depending on your business needs.

Workstation installation requirements – Windows XP SP2, Windows 2000 Professional or later, AutoCAD 2007 or later. Network connections and PDFCreator are optional. The software is distributed on CD with an install wizard.



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