



CADONIX

COMPANY DECK 2022



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Who are Cadonix?



Cadonix is a company with a highly dedicated engineering and technology led team based in Oxford, UK.

Unique to us, all of our team have worked in the industries we support, our solutions are designed to work with the industry practices and not dictate workflows. This enables our solutions to be rapidly deployed and adopted.

We take pride in being able to support our customers either directly or through our distributor network. If our customers have any queries or issues, we aim to solve them the same day.

We understand that downtime is unacceptable in a fast-paced world and our systems ensure that customers are supported in a speedy manner.

What do we do?

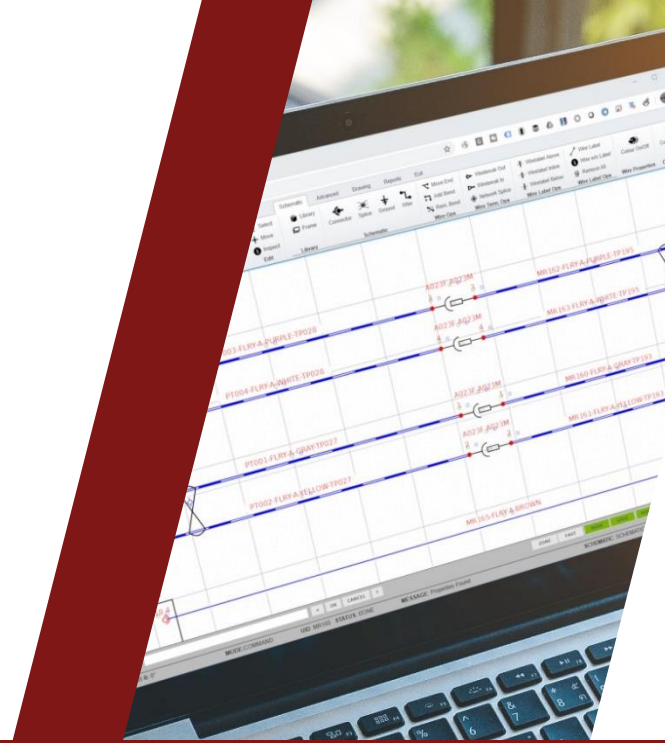
We help companies whose businesses involve the design and manufacture of electrical systems.

We address the needs of the bulk of our customers via the provision of design tools and component services via our cloud suite Arcadia.

For larger enterprise and specialist customers we offer additional Arcadia modules e.g. platformArchitect and other Cadonix products such as costCompare to cater for their more complex needs.

Cadonix also provides consultancy and integration services to allow our customers enhance their businesses and processes using our expertise in both software and electrical engineering competencies.

Whatever the size and scale of customer our industry leading support and parts teams will help ensure your engineers are focused on productive tasks.



Browser based Design
and Manufacture Suite



Cadonix AWS cloud
infrastructure



Full lifecycle toolset for
every stage



Enterprise modules for
large OEMs and Tier 1s



Industry leading support

Why browser-based cloud?

From its inception Arcadia was designed to be a browser cloud application as the internet provides unparalleled flexibility in terms of both usage patterns and hardware investment



CLOUD COMPUTING

All modern future-proof applications are built specifically for the cloud



FLEXIBLE LICENCING

The cloud allows for flexible license and user management



COUNTRY FLOATING LICENCES

Your users are not restricted to a single location or computer



COLLABORATE

Enables remote teams to work together – even different companies



INTUITIVE

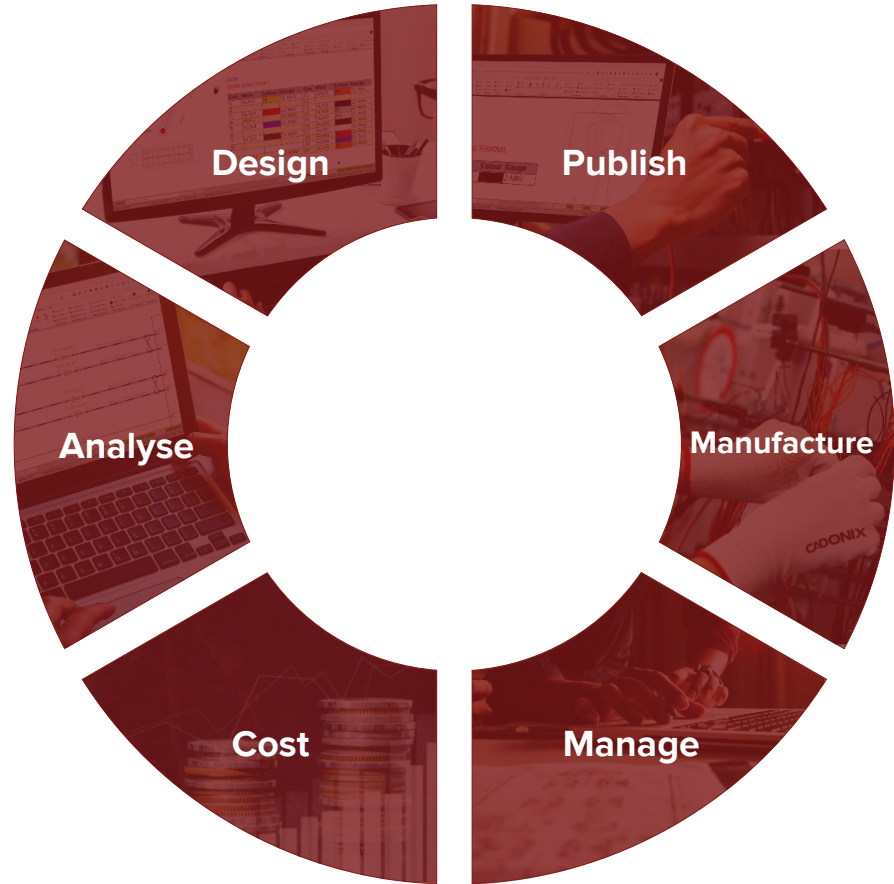
Browser software is easy to use. Arcadia reduces timescales by 30%



HAPPY USERS

Users are happy because Arcadia reduces operational friction

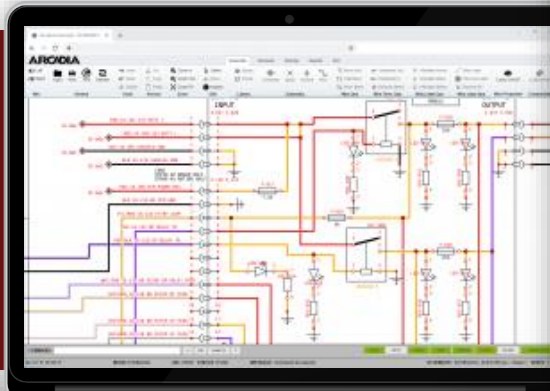
Cadonix Complete Lifecycle Tools



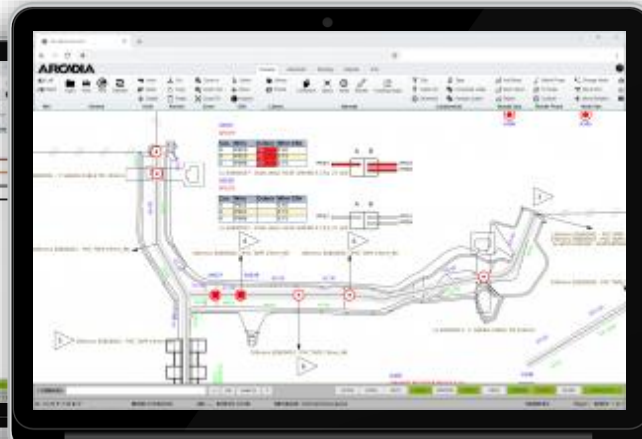
Design tools for Engineers

State-of-the-art cloud-based ECAD software suite developed specifically to enable engineering teams to design & simulate electrical systems and wiring harnesses

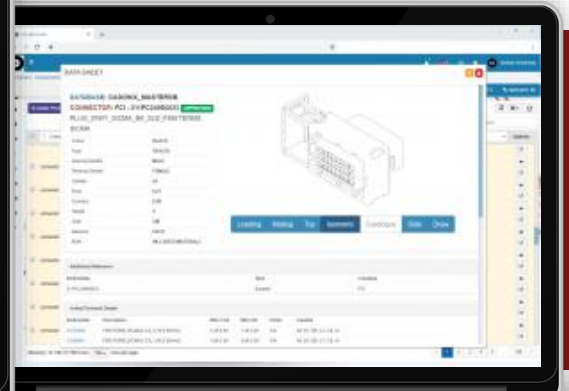
Arcadia tools cover the end-to-end process of the design and analysis of electrical systems, the design, layout and manufacture of wire harnesses, their testing and documentation from anywhere - directly in a web



Schematic Design



Harness Layout

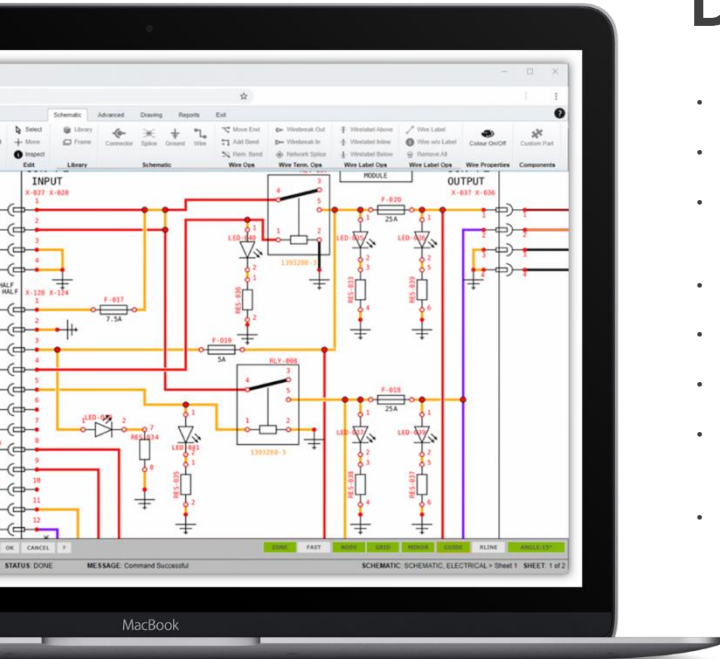


Component Database

CADONIX

ARCADIA

Arcadia Schematic Design



- Integrated real-time simulation and analysis
- Integrated Symbol Library
- Animated simulation provides a clear understanding of circuits validity at a glance for the Engineer
- Cross page connectivity
- Building-block library system for rapid design
- Interfaces to ERP, PLM and MCAD
- Fully integrated with Arcadia Harness for seamless exchange of data
- Tool Tips provide real-time electrical data

A comprehensive vehicle electrical system design software tool for engineers who need to design, diagram and simulate electrical wiring systems.



Schematic Capture

Your Arcadia electrical design is not only captured quickly, but inbuilt automated simulation and analysis tools ensure that your design is correct



Live Simulation

Arcadia Schematic includes an advanced simulation engine allowing you to accurately simulate your design to see behaviors such as voltage drops and potential fault conditions in real-time



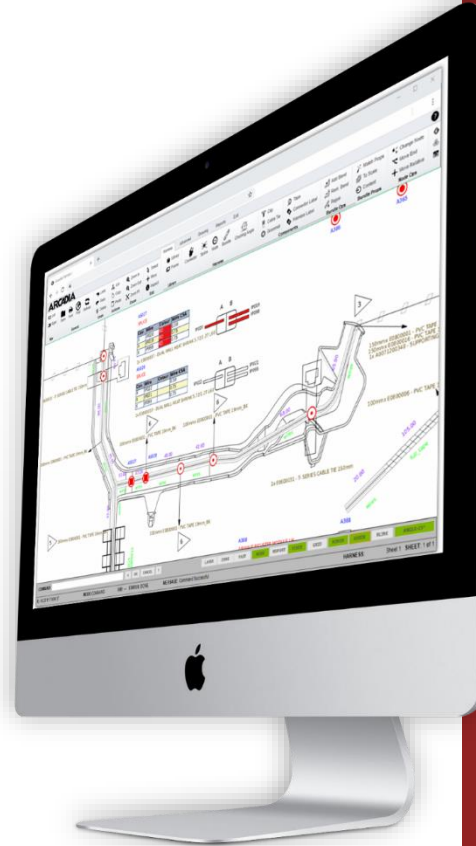
Smart Editor Tools

Arcadia schematic includes a range of powerful editors allowing you to bulk edit the data in a standard spreadsheet style interface – Arcadia adapts to how you want to work

Arcadia Harness Layout

Arcadia Harness ensures your harness is captured both clearly and accurately

- Captures your harness layout with ease via its intuitive graphical interface
- Integrates with your enterprise-wide tools & processes (MCAD, PLM, ERP etc.) using our API
- Integrated parts database
- Automatically selects the correct terminals, seals and accessories based on your design
- Automatically create bill of materials, wire lists and other reports
- Reverse Engineering Capability
- Splice Illustration and Balancing
- Clocking Angle Illustration Tool



Create harnesses directly from the schematic

Identify a schematic to build your harness from, specify which connectors & splices should be used and added including their part number, cavity table & view.



Ensure Quality

Design Rule Checks ensure that your harness can be manufactured reliably and all BOM parts are captured and checked.

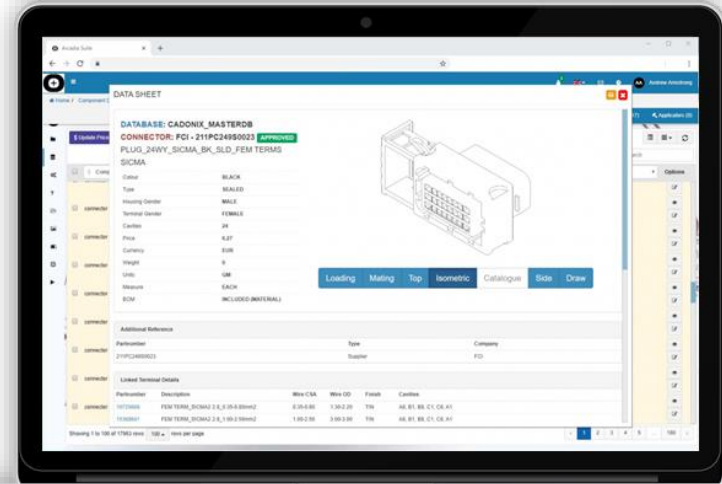


Collaborate and Integrate

Arcadia's Cloud based environment enables a connected collaboration of people on projects and teams Fully integrated with Arcadia Schematic Pro Complete validation of all aspects of harness manufacturing documentation.

Arcadia Component Database

- Ability to import legacy data
- Customizable views to suit individual project requirements
- Multiple part number cross referencing
- Ability to support multiple databases
- Rapid search facility for all parts
- Comprehensive library of parts available
- Dynamically Generated Datasheets
- Manage Tooling and Applicators



The component database stores all your part information including parametric connector information such as terminals, wire ranges and linked parts



Advanced component database to store your parts

Arcadia Database allows any image to have a user specified basepoint set, this allows your drawings to neatly arrange and also orientate images and components to their linked harness bundles



Arcadia component database automation

Arcadia can automatically select coverings such as Conduit, Heat-Shrink-Sleeve and Tube to correctly fit your wire bundles all at the click of a button



In-tool Part Store

Arcadia includes a part store built-in so that you can select all the parts you need in the database for your next project quickly and easily. If its not in the store, do not worry, you can even order new custom-built parts via the store!

Review and Publish

Easily publish engineering data to an interactive export that can be used on or offline, on pc, phone or tablet and without any per-device licensing.

Our technology allows you to share your data easily with service departments, customers and third parties who need access to it

Allow your entire organization access to harness design data without consuming design licenses.

AG089

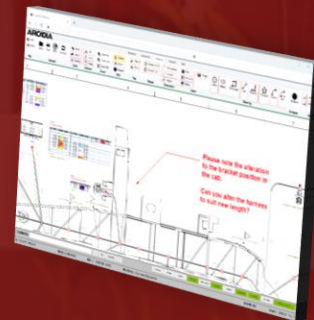
BATTERY NEG TERMINAL

Cav.	Wire	Colour	Gauge
1	WC001		2 AWG

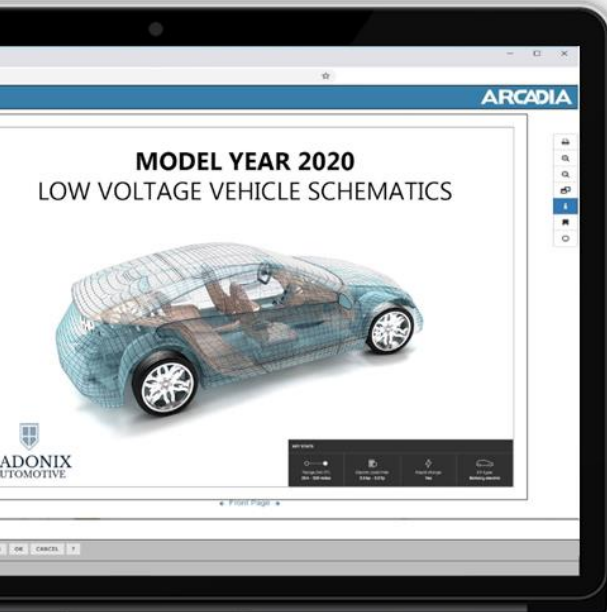
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techPublisher

reView



Arcadia techPublisher



- Automatically produce end-user ready technical publications at the click of a button
- Can be accessed on any device with a compatible web browser
- Interactive click and trace to follow wire breaks & view connector tables
- Can be loaded and viewed on HTML Browser enabled Machines & Vehicles to provide on-board diagnostics diagrams
- Fast and fluid navigation and search
- Can be embedded into existing Web Delivered service and parts diagram software

Cadonix techPublisher allows your company to easily publish engineering data to an interactive export that can be easily shared over the internet

Create service output automatically



Indexes, Connector data tables and schematic sheets are all automatically published to provide an intuitive easy to use resource for your service engineers

Cadonix technical publication benefits



Photographs & 3D CAD View snapshots can have Hotspots added to aid navigation and clearly illustrate harness routings. Clearly and Accurately present your service data to technicians and shop floor

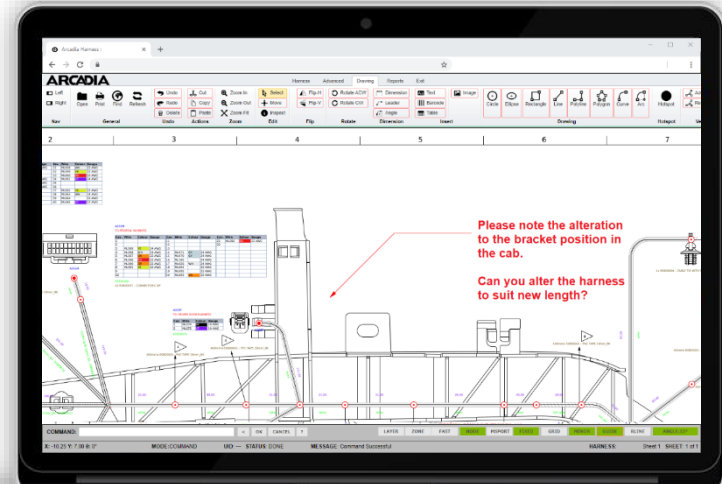
Fully Integrated



In conjunction with the techPubs publishing module you can create specific service publications for every variant of your product avoiding nonspecific content

Arcadia reView

- View and mark up Arcadia schematics and harnesses without an Arcadia Design license
- View Arcadia reports including Bill of Materials, Wire Cutting Lists, Component databases and manufacturing instructions
- Intelligent 'Click & Trace' functionality across various sheets in a design
- Customers and suppliers can collaborate and review and monitor progress across departments and project Teams
- Seamless exchange of data over the internet



Arcadia reView users can overlay both graphical and textual comments on either completed designs or work in progress without effecting the underlying data.



Create mark-up for revision management

Extended Enterprise staff including workshop technicians, field service engineers, procurement, inspection & QA departments, after sales and service as well as facilitating commercial collaboration with Customers



Review drawing markup benefits

Arcadia reView can be used by anyone that has an interest in the original Arcadia data. This can be a technician working on the factory floor, a field service engineer, goods receivable, procurement engineers or customers working in collaboration with their suppliers

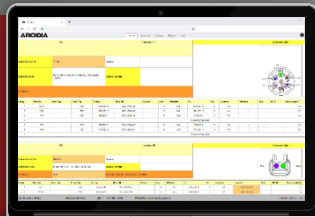
Build and Test

Generate manufacturing documentation not only as a Harness Manufacturer but also for Prototype harness builds or In-House production.

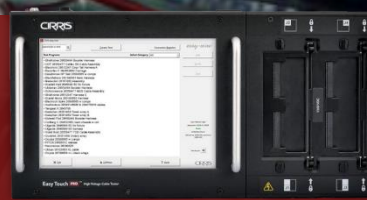
Create a seamless interface between your engineers and the manufacturing technicians avoiding wasted time associated with manual methods



formboard



Manufacturing

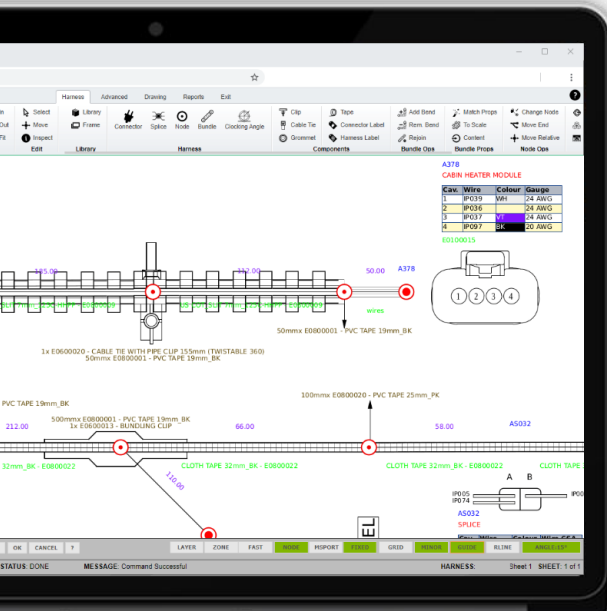


Testing



quoteBuilder

Arcadia Formboard



- Supports Rapid-Tooling systems such as Panduit Quick-Build
- No need to re-draw your layout
- Shows all wire color spot highlight colors and wire IDs
- Independent profile configurations
- Select table data contents to suit your manufacturing process
- Create Formboard Tooling libraries for quick part re-use

Arcadia Formboard enables manufacturers to automatically Full-Scale and manipulate harness drawings to fit a physical build area.



Create formboards automatically from drawings

Arcadia Formboards can be easily resynchronized to customer drawings without the need to re-draw the layout when customers make updates and revision changes



Arcadia Formboard benefits

Arcadia Formboard output can be used for paperless digital manufacturing using projectors & screens as well as traditional methods

Zone locations can be configured for rapid tooling methodologies such as magnetic board mounts and perforated steel build boards

Arcadia Manufacturing

The arcadia Manufacturing reports make it easy to generate manufacturing documentation not only as a Harness Manufacturer but also for Prototype harness builds or In-House production.

This creates a seamless interface between your engineers and the manufacturing technicians avoiding wasted time associated with manual methods such as questions and clarifications associated with interpreting a drawing alone.

- Connector Loading Illustrations with Wire Highlighting
- Manufacturing Ready Adjusted Wire Cutting Lengths
- Splice Configurations are Illustrated in report
- Full BOM Output Ready for Sourcing
- Report Archiving to PLM
- Multicore Preparation Reports



Arcadia Testing Interfaces

Generate test code directly from Arcadia engineering drawings, allowing you to ensure that your harness builds match your CAD 100% without having to built, learn and test against a golden sample build.

Arcadia Testing has output for most popular harness test interfaces in use in the industry such as CAMI Research, CIRRIS, WEETECH & Dynalab.



- Build Harnesses right first time
- See quickly where build issues have occurred
- Profile driven parameters such as acceptable variance in resistance
- Link successful harness tests to your label printers to ensure that a Part Number label is only printed after successful test
- Catch build errors early in your batch production
- Ensure increased productivity and reliability

Create test code output automatically from drawings

Arcadia Testing Interface Code can be instantly generated for any Arcadia drawing, this allows full harness testing even for low volume production

Link to connector test headers

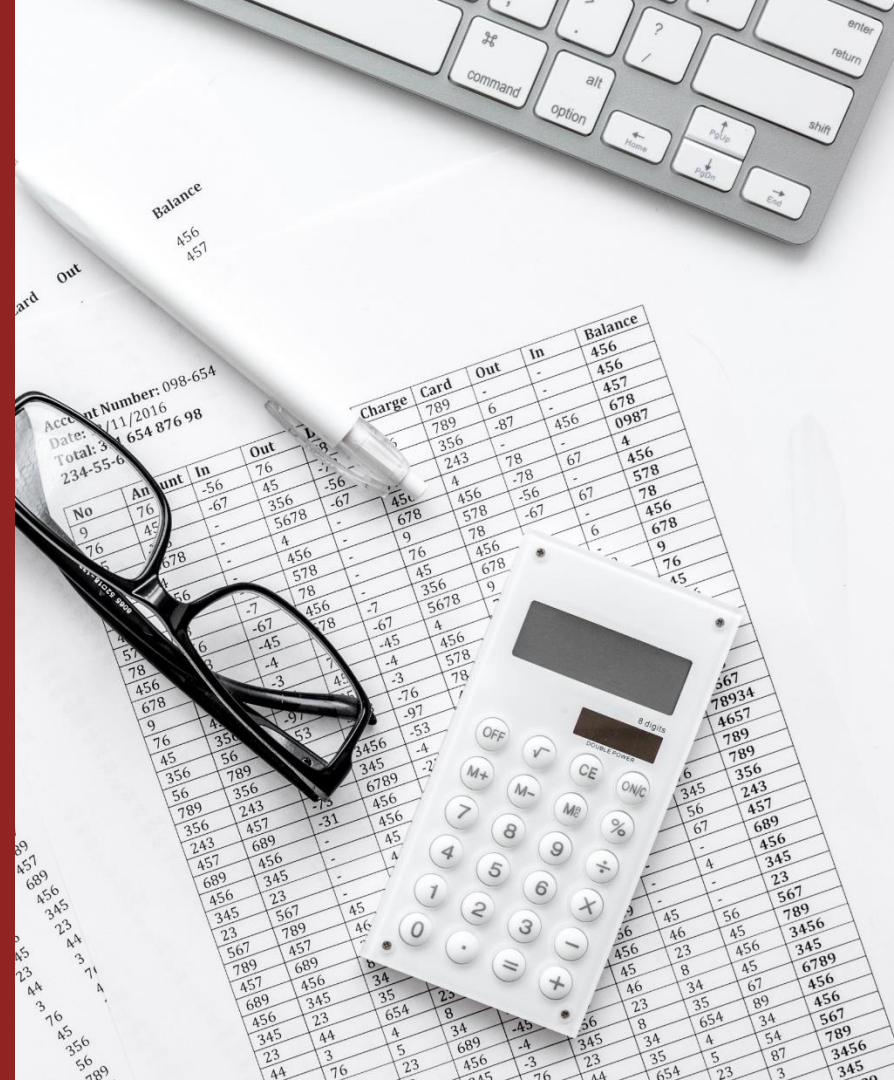
There is no limit to the cross-references you can add to a part, easily switch which of these show on your drawings & reports

Arcadia quoteBuilder

Arcadia quoteBuilder is an optional but fully integrated module for use with Arcadia Harness designs. Arcadia quoteBuilder gives you the power to generate Instant accurate quotes for your customers and make sure that no BOM components are missed out during the process.

Labor operations can be assigned for any operation or part type allowing you to accurately capture labor and performance metrics for your organization.

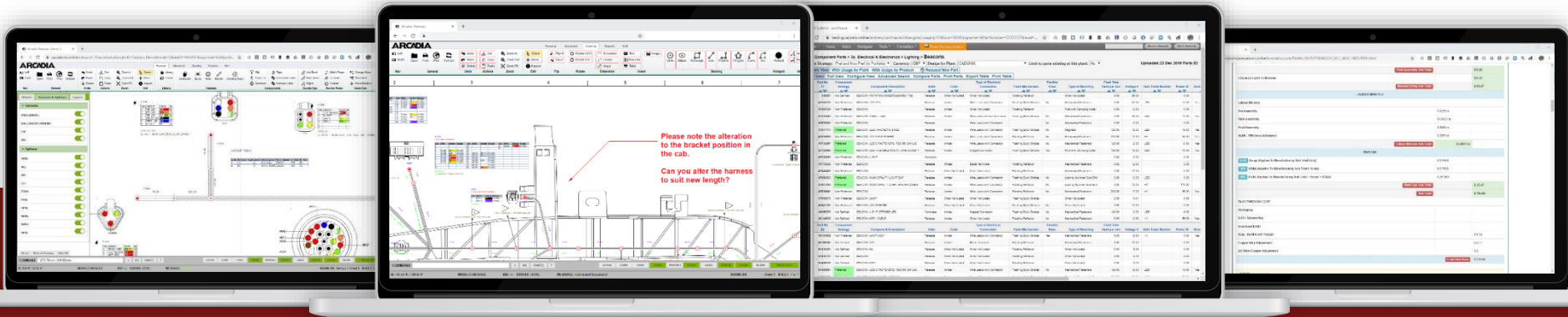
- Review cost reports for historic changes
- Integrated Cost Database
- Generate BOM & Labor reports
- Maintain the specific costing profile attributes for each supplier/customer
- See the cost impact of engineering changes instantly
- Output reports in PDF, HTML and XLS formats



Manage and Analyze

Enterprise customers have particular challenges in how they operate. We ensure they are covered with an advance range of tools and services

Cadonix offer a range of Arcadia and supporting browser accessed cloud tools to manage and track your designs, inventory and costs



platformArchitect

harnAlyser

partMaster

costCompare

Arcadia platformArchitect

Arcadia platformArchitect allows engineers to automatically create derivatives of a 150% master design using advanced processing techniques. Each resulting harness will be packaged with its associated artefacts including schematic, formboard drawing and reports.

Dynamically update your variant/option matrix and dynamically regenerate drawings.

Manage your wiring complexity with ease!

- Simple to Configure & Manage
- Manage different platforms per profile
- Advanced Dashboard Management System
- Generate Unique Reports per Variant
- Advanced Synchronization between Schematic/Harness
- On-the-fly generation one off reports
- Streamline Harness Variants for Production
- Table-Driven Bundle Lengths Allow Dynamic Cut Length

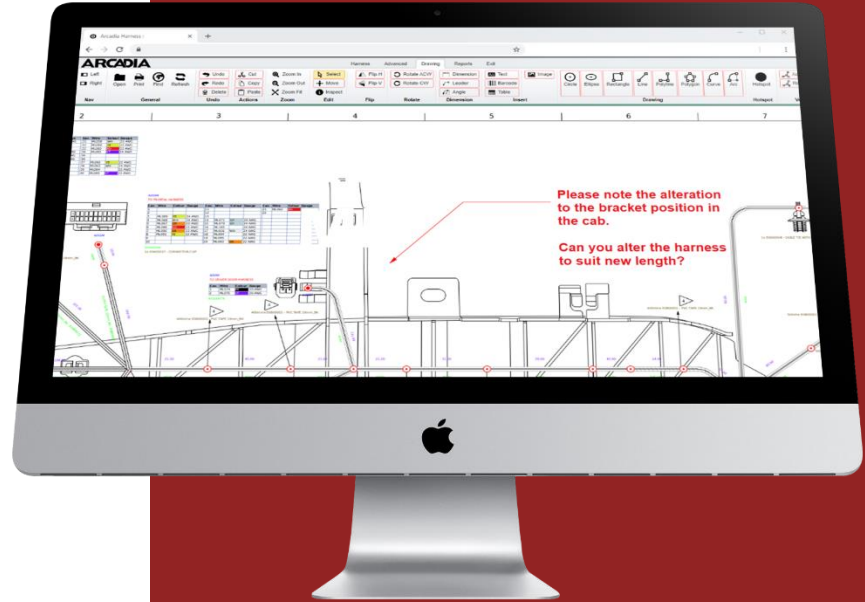


Arcadia harnAlyser

harnAlyser allows instant comparison, analysis and merge of any 2 similar harness designs.

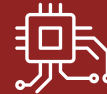
This can be used to identify changes between revisions, between harness variants and to merge any harnesses that have been modified independently of each other.

- Display change by BOM, Graphical geometry and component metadata
- Show and hide filter options
- Compare different revisions of harness to see the delta impact
- Can Compare any two harnesses – even from different projects
- Merge feature lets you Highlight any differences and lets you select into a 3rd new Harness
- Can show changes as a list and graphically



Generate revision change reports directly from data

Arcadia harnAlyser can be Create Detailed change logs explaining exactly what changes have been made between harness revisions.



Identify changes made and highlight on drawings

Quickly see where changes have been made on a harness in an easy-to-use interface, save hours searching drawings manually to find changes.

Cadonix partMaster

Cadonix partMaster is a power viewer, merging for each component family, technical & BOM data from any number of engineering, PLM, purchase and documentation systems. Presented to the user in a simple to use interface, designed to aid end-user in making the right component selection, first time.

- Helps to encourage better engineering and spend decisions
- Allows purchase teams to review price details quickly across different locations
- Complexity reduction for plants, engineering and spare parts
- Engineers can easily search suitable parts for their designs using powerful search and filtering tools
- Powerful output tools allow engineers to build part datasheets for all their selected parts



Access From Anywhere

Globally accessible component catalogue stores complete listings of all common use component types for standardization and any associated documentation



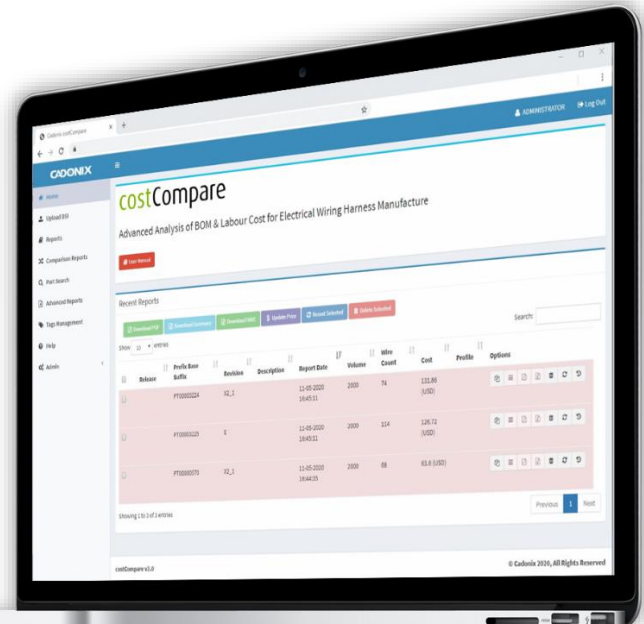
Master of your Global Inventory

Cadonix partMaster enables part number reduction by steering engineers and designers towards components with the best quality, cost and performance

Cadonix costCompare

costCompare allows OEMs and Wire Harness manufacturers to accurately generate reports detailing the total cost to manufacture a wiring harness including the cost of parts and labor, all in a matter of seconds. It also allows detailed comparison of harnesses to identify changes.

Now you can cost every single harness and variant to an exacting degree – in minutes!



- Every Harness Variant has an accurate and detailed report
- costCompare report generation is instant so there is no delay for release
- Supplier has to build to print, there is no scope to edit or amend BOM
- ECAD data is processed by
- costCompare to create multiple reports
- Full BOM & Engineering data Information
- Fully detailed reports itemizing each element of cost
- Fully integrates with Arcadia



Automatically Generate

Harness BOM Reports, Harness Cost Estimation, Harness Comparison Reports, Where Used Reports



Leave no penny unaccounted for!

Cadonix costCompare ensures that your team can cost 100% of your harnesses. This ensures that there are no gaps in your costing and allows you to analyze the incremental cost differences between revisions.

Professional Services

Cadonix is not only the worlds leading enterprise cloud Harness Design CAD suite, we are also providers of professional and engineering services.

If you have a requirement in any of the areas below or related, please do not hesitate to contact us on info@cadonix.com and we can work together on the best solution for your needs

Cadonix' team aims to help you and your business in a cloud connected world



Cloud, API
Integration



Costing
Consultancy



System &
Design



Component
Management

Cloud, API, App and Integration Consultancy

With over a decade of cloud and web development experience Cadonix engineers can help you with any part of the software development life-cycle to ensure that your existing infrastructure and systems can work seamlessly with Cadonix and capable 3rd party products.

If you have customers on Arcadia and want to deliver your branded services into their installation, for example you may wish to provide one click services, our App team is ready to understand your requirements.

To keep your engineers processed you can use our API add all your interactions and checkpoints into Arcadia itself.





Costing Analysis & Component Consolidation Consultancy

Cadonix have extensive experience working with some of the world's largest OEMs in Electrical Harness Costing for manufacture. This allows us to excel in consultancy projects in cost reduction and optimization both on a per-part based and from a holistic view of the vehicle architecture.

We undertake component consolidation projects helping customers reduce part inventory and streamline their engineering catalogues setting strategies for parts and removing functional duplicates from the inventory.

System and Design Engineering Services

The Cadonix team are not speculative engineers, every member is an expert in one or more engineering disciplines from electronics through to mechanical, software and manufacturing.

If you have a requirement, please ask us, our experience in these domains may prove to be invaluable to you.

Component Database Transfer and Rationalization Services

We understand that a pain point with any long-standing engineering company is the necessity to transfer and rationalize your engineering data and libraries onto new platforms and systems. If you want to know how we can help you in this, please contact us and we can discuss the strategies available.





Research and Development

Cadonix is committed to industry leading quality R&D on a broad range of technical subjects and disciplines, favoring end-to-end solutions for our customers.

We can offer R&D on a consultancy basis on projects where we can add exponential value to your endeavors. This could be a project with an instant return such as analyzing and optimizing a manufacturing process, through to a longer-term investment such as a proof-of-concept product design.

**DISCUSS YOUR R&D PROJECT
REQUIREMENTS WITH US TODAY!**

(above) The Thinloom Automotive Rapid Prototyping Concept consists of smart wireless nodes that can interact with each other and over the cloud to allow engineers to build mule vehicles and test functionality regardless of their respective locations and without wires!

CADONIX

Thank You