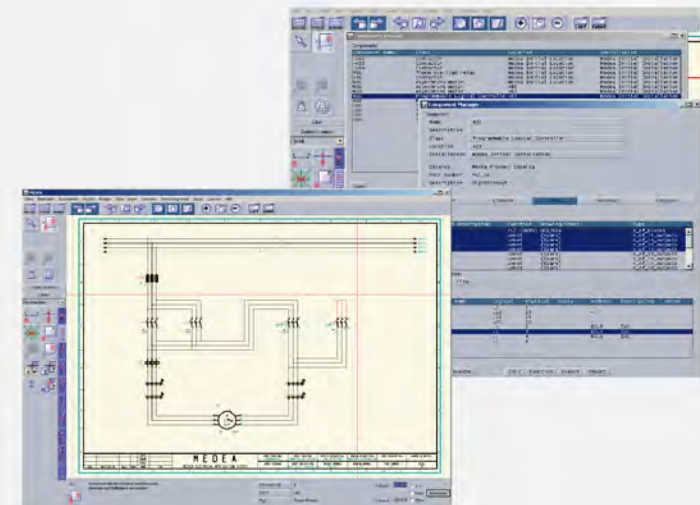


# MEDEA

ELECTRICAL APPLICATIONS



Your partner in expert electrical design

ADD-ON



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The MEDUSA ELECTRICAL APPLICATION, MEDEA, complements MEDUSA's powerful mechanical design capabilities by offering a series of specialist electrical applications ideal for the design of machinery with high electrical content. MEDEA addresses the quality and consistency issues associated with the development of complex electrical systems, efficiently tackling design projects of any scale.

#### Product Overview

MEDEA draws together all phases of the electrical engineering design process as an integrated whole. From initial data input to final documentation for manufacture, MEDEA works hard to automate time-consuming and costly repetitive tasks through its complete data management service, freeing the designers' creativity. Increased productivity, quality and design consistency mean shorter lead times, significantly increasing competitiveness.

#### Concurrent Design

MEDEA's modular approach provides specialist applications which allow different functional groups to work simultaneously on a design project. When modifications are made in any part of the project, the database is automatically updated to reflect the changes. All users have access to the latest information and can rely on data consistency throughout the project.

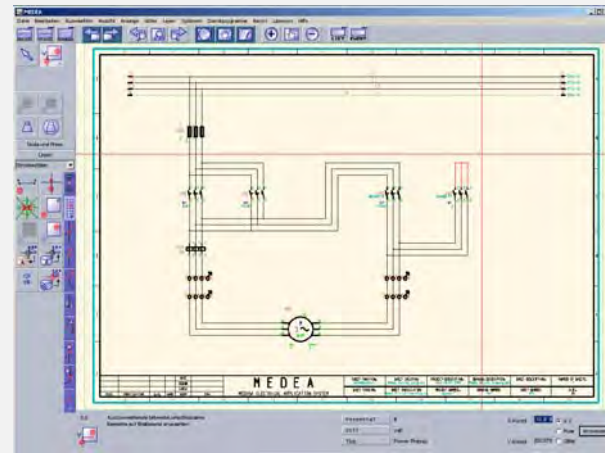
Circuit diagrams are the foundation for producing distribution, layout, wiring and cabling diagrams. All other diagrams are automatically kept consistent with the circuit diagram. The latest status of a project can be requested at any time.

Automatic cross-referencing, component validation, materials listings and similar facilities free project leaders and team members from endless checking and correction procedures.

#### Efficient Data and Project Management

The essential core of MEDEA is the relational database, designed to meet the data management and consistency challenges faced by a concurrent engineering working environment. The database is used as a design database, as a materials database, for project control, and for design control. It can handle large amounts of data with ease, making it suitable for big and complex projects.

Each project can use a totally self-contained database, tailored to specific project needs, with pre-defined project standards, materials catalogues and design rules. Whether accessing data via a specialist application or through scheduling and reporting activities, users are always presented with the most up-to-date information.



MEDEA makes it easy to deliver high quality electrical designs

#### Design Integrity and Control

Design standards specified on a per project basis can include zone, signal and function terminology, symbol and component catalogues, drafting format, route type and language. Project leaders can also monitor the integrity of designs by running reports of material omissions, unused component elements, missing wiring, and un-routed cables.

#### Features and Benefits

- Comprehensive set of tools for selecting, connecting and editing cables – automatically or interactively establish wire assignments and add connectivity components
- Automatic design integrity checking – ensure correlation between wiring assignments and schematics, reduce errors and save time, especially when updating and modifying existing drawings
- Automatic alteration reporting to all project members – ensure design consistency
- Simple symbol and micro circuit diagrams selection, loading, production and library customisation – save time, and ensure corporate and international standards compliance
- Multiple catalogue definitions and single-source multi-language support – simplify design localisation
- Automatic interactive cable and signal routing with auto update – optimise routings, increasing design and production efficiency
- Easy material selection and compatibility checking – rapidly select cost-effective materials according to electromechanical requirements
- Automatic annotation of wiring connections – easily create and revise wiring diagrams
- Clear wiring documentation – issue precise and reliable information for component fabricators; ensure error-free wiring in the field
- Terminal Strip Editor – Create, name, select and sort terminal blocks, moving a range of blocks within a large terminal strip in a few seconds; update all references automatically (customisable)
- Customisable materials database – Interactive entry of component data; or from ASCII files with full validation
- Simple backup and archiving options for notebook and home users – gain flexibility for today's work-life balance

- Multi-sheet plotting – plot sets of drawings in order and able to produce PDF and DXF format on demand for plotting
- Easy company or project-specific customisations – MEDEA Interface Procedures (MIP) allow users to write advanced customisations without specialist knowledge of the MEDEA database structure

#### MEDEA Modules

- MEDEA Circuit Design – Build circuits using logical symbols of components
- MEDEA Catalog – Work with actual physical items defined in the catalog. Choose appropriate functional items and MEDEA will match all characteristics, updating diagrams with pin names and performance data
- MEDEA Layout – Design cabinets with 2 1/2D representation of components
- MEDEA Cabling – Create, connect, and optionally detail cables on cabling diagrams
- MEDEA System Administration
- MEDEA PDF&DWG

#### Platforms Supported

- Windows® 2000 (Service Pack 4), XP Professional (Service Pack 2) and Vista Business

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