Design to Manufacturing Software

DTM Premium

DTM Engineering & Manufacturing Software enables designers to use powerful features to simplify the design process and capture manufacturing data to drive automated manufacturing.

DTM Premium package provides the most advanced features required to create schematic and panel layouts. Available in 120 or unlimited drawing sheet options. The drawing sheet limitation applies to a single project.

Provides a variety of smart cabinet-building features to simplify and streamline end-to-end processes, and generates the data needed for automated manufacturing, wiring, and assembling the solutions.

Enables engineers to easily design panels in 2D and seamlessly switch to 3D views – with changes saved simultaneously. That means designers can efficiently and effectively plan form, fit, and function for projects early in the design process.

Available DTM Software packages: Professional, **Premium** and Connected Worker

PREMIUM FEATURES

Design Collaboration

- Live online design rule checks to eliminate errors before they occur
- Passive design rule checks to inspect design quality
- Automatically select pin terminals based on wire size
- Real-time information synchronization between drawing types
- Automated selection of connector mates, inserts, contacts, wire end treatments, seals, plugs, etc.
- Manage project organization by location or function
- Intelligent tagging for devices, wires, cables and other design objects
- Supports PLC based designs with intelligent I/O management
- Supports terminal strip planning and assignment
- Supports options and variance in design
- Connection wiring diagrams automatically reference schematic and panel layout data
- Add multiple views of an object

Schematic Design

- Automated naming and signal management
- Automatically maintain signal continuity and integrity
- Automatically size wires based on pin restrictions
- Auto place shields, bundles and other cabling details
- Supports auto-connect and holds connection if components are moved
- Intelligent off-page connection management
- Real-time component cross reference management
- Ensure integrity of connector mates
- Avoid signal cross-connection or shorts for named signals
- Automatically update data across the project
- Create intelligent single line drawings
- Create intelligent connection wiring diagrams

- Single line drawings automatically update from and to schematics
- Create cable layout views
- Define dynamic cables in the project
- Represent complete connector with a single pin representation
- Intelligently split and merge connectors pins

Panel Layout

- 2D Panel layout
- 3D Panel layout
- Route wires automatically with manufacturing accuracy
- Apply cutouts and keep outs for enclosure modification
- Detect collision in 3D while placing object in 2D
- Bi-directional representation of 2D and 3D views
- Intelligent duct and rail hole calculations
- Intelligent mounting inside panels
- Create 2D drawings of 3D layout
- View all or single enclosure in one drawing
- Connected sub-section views of enclosure
- Define wire routing path with ducts in the panel layout
- Plan signal inclusion and exclusion from wire ducts
- Shortest path detection for wire routes
- Collision detection in 3D to ensure manufacturability
- Automatic wire numbering and device tagging

Library and Database Management

- Easy to use library of parts
- Shared library for multiple teams and sites
- Capture manufacturing and engineering data in one place
- MS SQL, Oracle or Access database for sharing parts and standards
- Company specific customizable attributes and text types
- Easy to create panel parts with STEP or DWG
- Add 3D details to 2D objects

- Part management as one object with multiple representations to ensure consistency
- Manage connectors with mates and inserts
- Define and manage reusable circuits or blocks in library
- Define cables and connectivity in the library
- Define keep out areas and restrictions in the library
- Define drill holes, cutouts, and other physical details in the library
- Define mounting details in the library
- Manage wires and cables in the library
- Configure part rules for accurate wire sizes and lengths
- Automatic wire numbering and device tagging

Import and Export

- Export as DWG
- Export as PDF
- Create export for Modcenter cutouts
- Create export for PWA
- Create export for other wiring machines
- Create ballooned onpage B.O.M
- Import STEP models to create panel parts
- Automatic wire numbering and device tagging

Automation and Reporting

- Open API to create own customizations
- Built-in reports to extract pertinent data
- Custom report creation, design, and processing tools
- Automatically create terminal layout drawings
- Generate drawings from excel data
- Start designs from excel From-to lists
- Create output for automated test machines
- Automatic wire numbering and device tagging

Our powerful portfolio of brands:

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